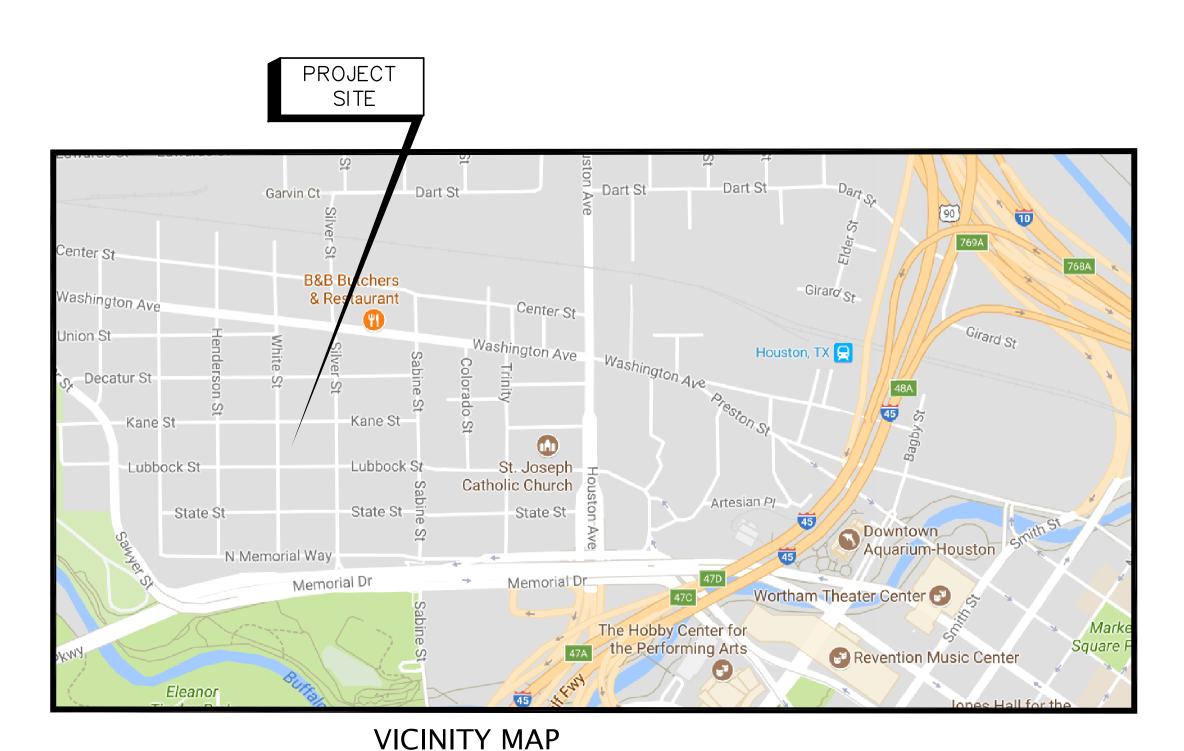
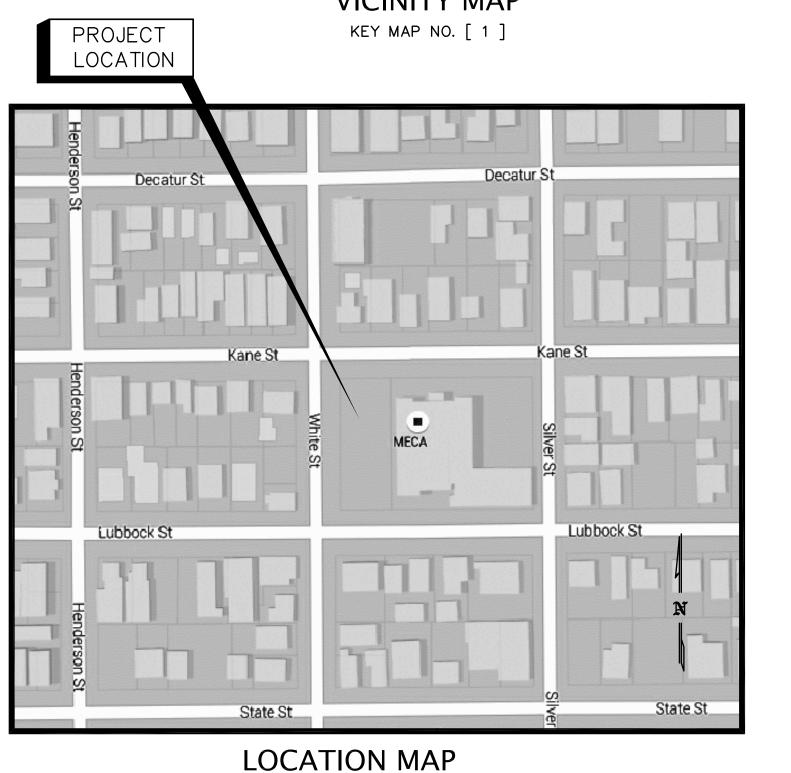
# CITY OF HOUSTON

# GENERAL SERVICES DEPARTMENT PARKS CAPITAL IMPROVEMENT PROGRAM DOW ELEMENTARY PARK 1900 KANE STREET HOUSTON TX 77007

WBS No.F-000870-0001

**SEPTEMBER 27, 2018** 





KEY MAP NO. [ 2 ]



# MAYOR SYLVESTER TURNER

CONTROLLER CHRIS B. BROWN

	DISTRICT COUNCIL MEMBERS			ARGE MEMBERS
BRENDA STARDIG DISTRICT A	JERRY DAVIS DISTRICT B	ELLEN COHEN DISTRICT C	MIKE KNOX POSITION 1	DAVID ROBINSON POSITION 2
DWIGHT BOYKINS DISTRICT D	DAVE MARTIN DISTRICT E	STEVE LE DISTRICT F	MICHAEL KUBOSH POSITION 3	AMANDA EDWARDS POSITION 4
GREG TRAVIS DISTRICT G	KARLA CISNEROS DISTRICT H	ROBERT GALLEGOS DISTRICT I		CHRISTIE TION 5
MIKE LASTER	MARTHA CASTEX-TATUM			

DISTRICT J

DISTRICT K

STEPHEN WRIGHT - DIRECTOR
PARKS AND RECREATION DEPARTMENT

# SUBMITTED FOR: BID AND CONSTRUCTION

# SHEET INDEX

# CIVIL:

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C - 1.0 DEMOLITION PLAN

C - 2.0 STORM DRAINAGE & DETENTION PLAN

C - 2.0A IMPERVIOUS COVER

C - 3.0 GRADING PLAN

C - 4.0 STORM WATER POLLUTION PREVENTION PLAN

C - 5.0 CIVIL DETAILS

# LANDSCAPE:

L - 0.0 SITE PLAN

L - 1.0 TREE PROTECTION PLAN

L - 1.1 TREE PROTECTION DETAILS

L - 2.0 LAYOUT PLANS

L - 2.1 LAYOUT PLANS

L - 3.0 HARDSCAPE DETAILS

L - 3.1 HARDSCAPE DETAILS

L - 4.0 IRRIGATION PLAN

L - 4.1 IRRIGATION DETAILS

L - 4.2 IRRIGATION DETAILS

L - 5.0 LANDSCAPE PLAN

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A - 510.0 LONG HOUSE GROUND PLAN

A - 511.0 LONG HOUSE REFLECTED CEILING PLAN AND LIGHTING

A - 512.0 LONG HOUSE ROOF PLAN

A - 520.0 LONG HOUSE ELEVATIONS AND SECTIONS

A - 530.0 FENCE DETAILS

A - 530.1 MISC.DETAILS

A - 550.0 LONG TABLE PLAN

A - 551.0 SWING ELEVATIONS

A - 551.0 SWING ELEVATIONS A - 552.0 GAME TABLE PLAN / DETAILS

A - 553.0 HEARTH PLAN

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S - 700.0 LONG HOUSE FOUNDATION PLAN

S - 700.1 STORAGE CONTAINER, SLAB PLAN AND DETAILS

S - 700.2 MASONRY CHIMNEY DETAILS

S - 701.0 LONG HOUSE FRAMING PLAN

S - 710.0 LONG HOUSE STRUCTURAL DETAILS

# MEP:

EP - 1.0 ELECTRICAL/PLUMBING GENERAL NOTES AND LEGENDS

EL - 1.1 ELECTRICAL LIGHTING PLAN

EP - 1.1 ELECTRICAL POWER PLAN

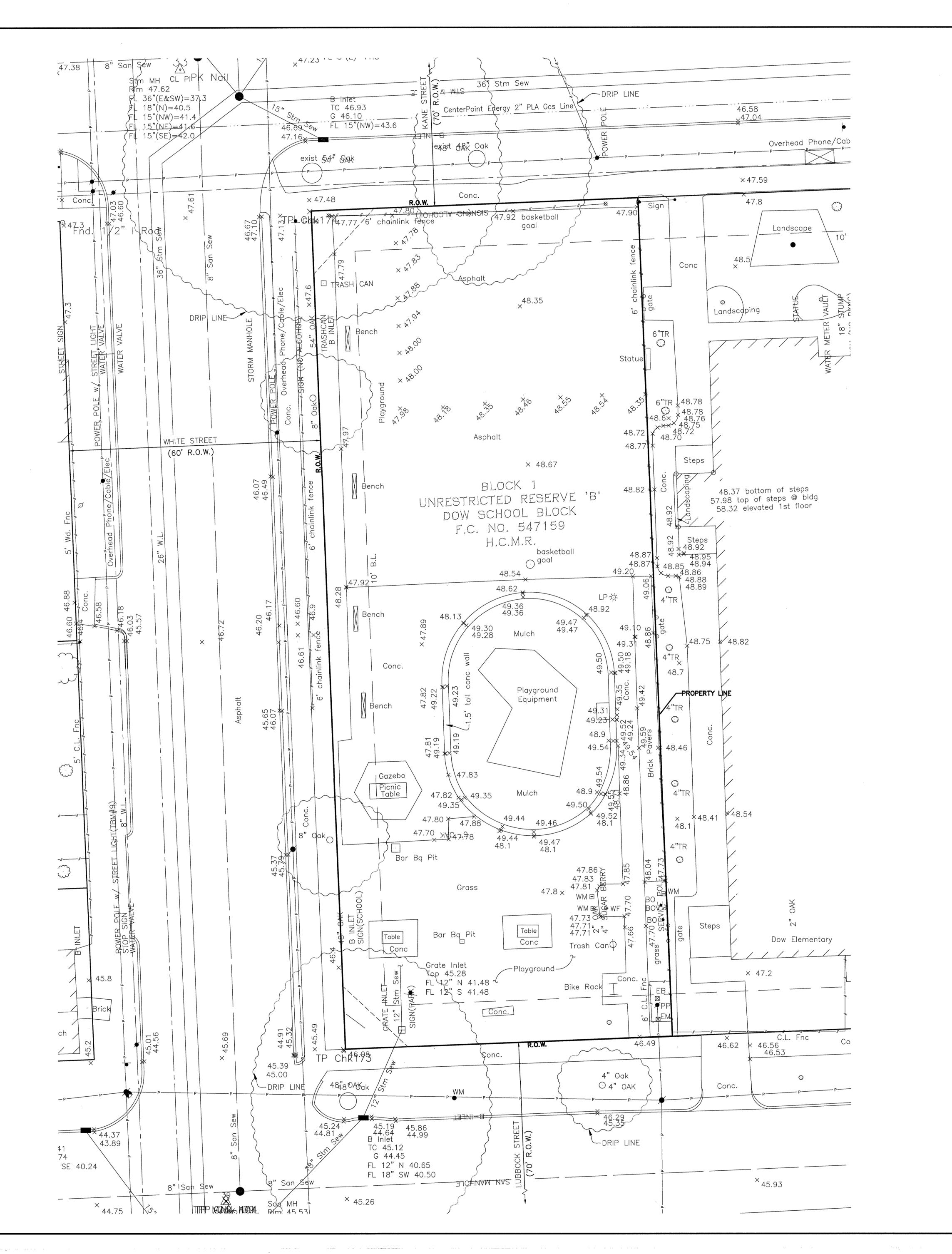
P - 1.1 PLUMBING PLAN

CONTRACTING AUTHORITY
FOR THE
CITY OF HOUSTON:
GENERAL SERVICES DEPARTMENT

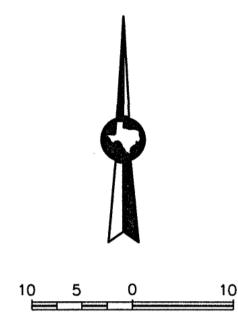
C. J. MESSIAH, JR - DIRECTOR

CITY DWG. No:

SHEET No. 1 OF 40 SHEETS



**WARNING** OVERHEAD AND UNDERGROUND UTILITIES MAY EXIST IN THE VICINITY OF THIS PROJECT. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST IN THE VICINITY OF THE PROJECT WHICH ARE NOT SHOWN ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, IN THE VICINITY OF THE PROJECT, PRIOR TO BEGINNING CONSTRUCTION.



NOTE; DRINKING FOUNTAIN WATER LINE IS LOCATED IN THE VICINITY OF THE PROPOSED DRINKING FOUNTAIN.

100% DD **HPARD & GSD** 09.04.2015 75% PLANS 10.27.2016 4 03.14.2017 95% CD 06.15.2017 100% CD 12.18.2017 ISSUE FOR PERMITS 01.26.2018 PERMIT COMMENT RESPONSE

**ISSUE LOG** 

DATE

DESCRIPTION

asakura robinson asakura robinson company LLC Planning Urban Design Landscape Architecture 1902 Washington Ave., Suite. A Houston, Texas 77007 P: 713.337.5830

METALAB

www.asakurarobinson.net

2003 Kane Street Houston, Texas 77007 P: 713.426.3640 www.metalabstudio.com

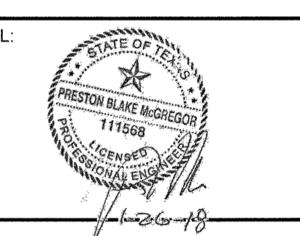
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STRUCTURAL ENGINEER HOUSTON, TEXAS 77098 P:713.523.0775 www.insightstructures.com | DOMINION INTERESTS INC.

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Parks Capital **Improvement** Program
for City of Houston
General Services Department and
Parks & Recreation Department

PARK NAME:

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13



CITY OF HOUSTON **GENERAL SERVICES** DEPARTMENT

REVIEWED:

[L-NNNN-NN-3] [AS NOTED] CHECKED BY

SHEET TITLE :

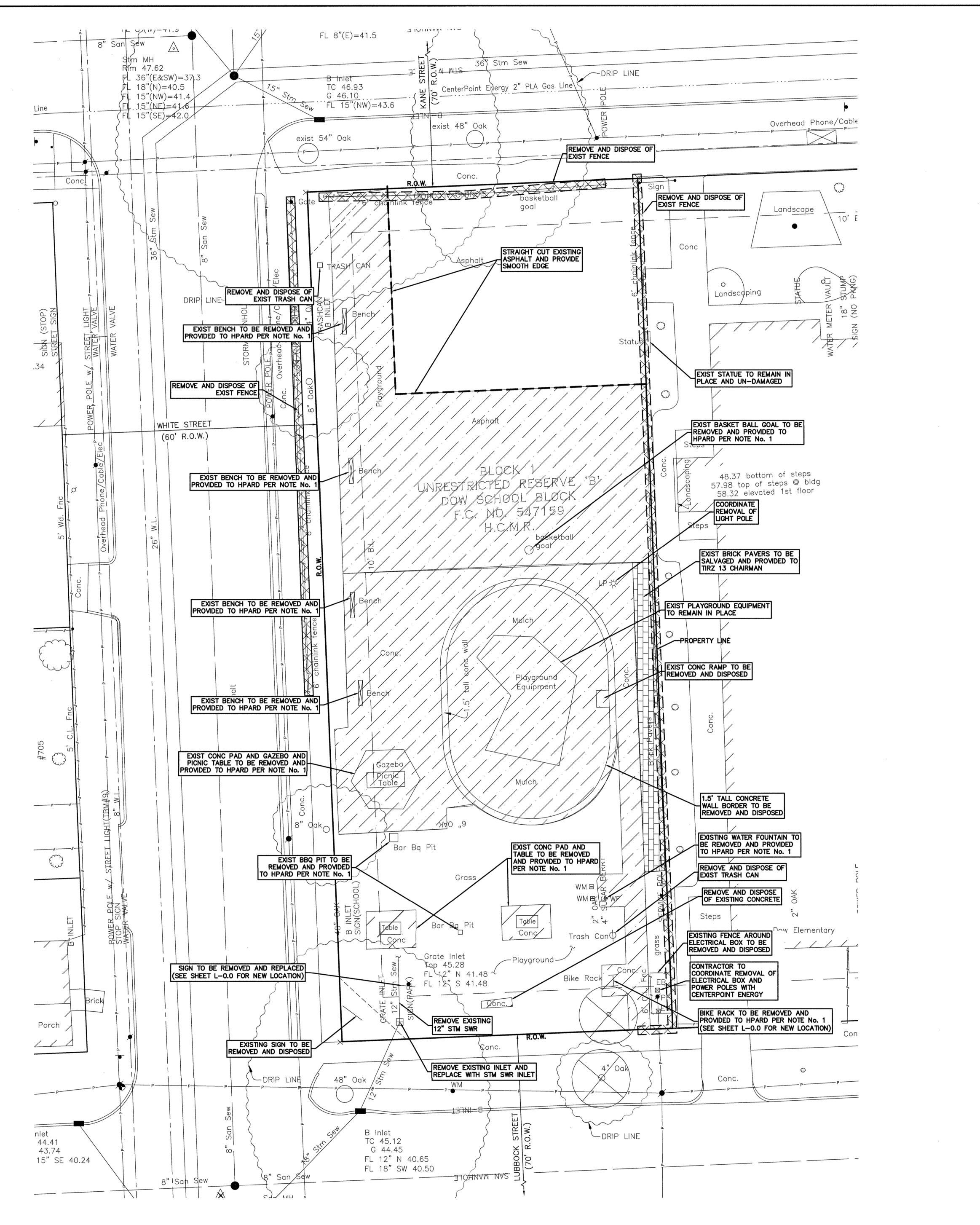
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SHEET NO.

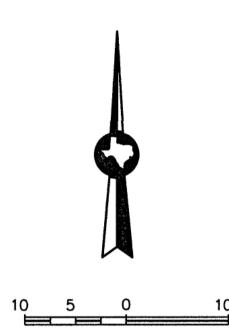
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CITY DWG. NO. :

P-3821



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**LEGEND** 



REMOVE AND DISPOSE OF INCLUDING BUT NOT LIMITED TO EXISTING ASPHALT PAVEMENT, CONCRETE PAVEMENT, CONCRETE WALL, MULCH AND BRICK



BRICK PAVERS TO BE SALVAGED AND PROVIDED TO

# NOTE:

- 1. HPARD HAS OF FIRST SALVAGE OF ANY ITEM TO BE DEMOLISHED. TIRZ 13 HAS SECOND RIGHTS TO ANY ITEM BEING DEMOLISHED. NOTIFY HPARD TIRZ 13 AND LANDSCAPE ARCHITECT PRIOR TO CONDUCTING DEMOLITION
- 2. SEE SHEET L-1.0 FOR TREE PROTECTION AND MITIGATION
- 3. CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER THE DELINEATION AND DEPTH OF EXCAVATION TO ENSURE CUT AND FILL BALANCE.
- 4. EXISTING STORM SEWER AND WATER LINE LOCATION TO BE FIELD VERIFIED BY CONTRACTOR.

**ISSUE LOG** DESCRIPTION DATE NO. 04.03.2015 100% DD 09.04.2015 HPARD & GSD 10.27.2016 75% PLANS 95% CD 4 03.14.2017 100% CD 5 06.15.2017 6 | 12.18.2017 | ISSUE FOR PERMITS 1 01.26.2018 PERMIT COMMENT RESPONSE

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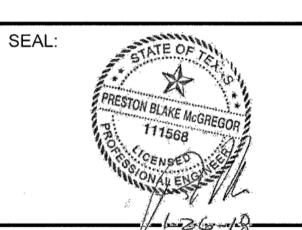
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ELECTRICAL | 1919 Decatur ENGINEER | Houston TX 77007 P: 713.626.7155 www.dominioninterests.com



Parks Capital Improvement Program for City of Houston

General Services Department and Parks & Recreation Department

PARK NAME:

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13



CITY OF HOUSTON

GENERAL SERVICES DEPARTMENT

REVIEWED:

PROJECT MANAGER

N/A PARKS PROGRAM MANAGER

[L-NNNN-NN-3] [AS NOTED]

CHECKED BY

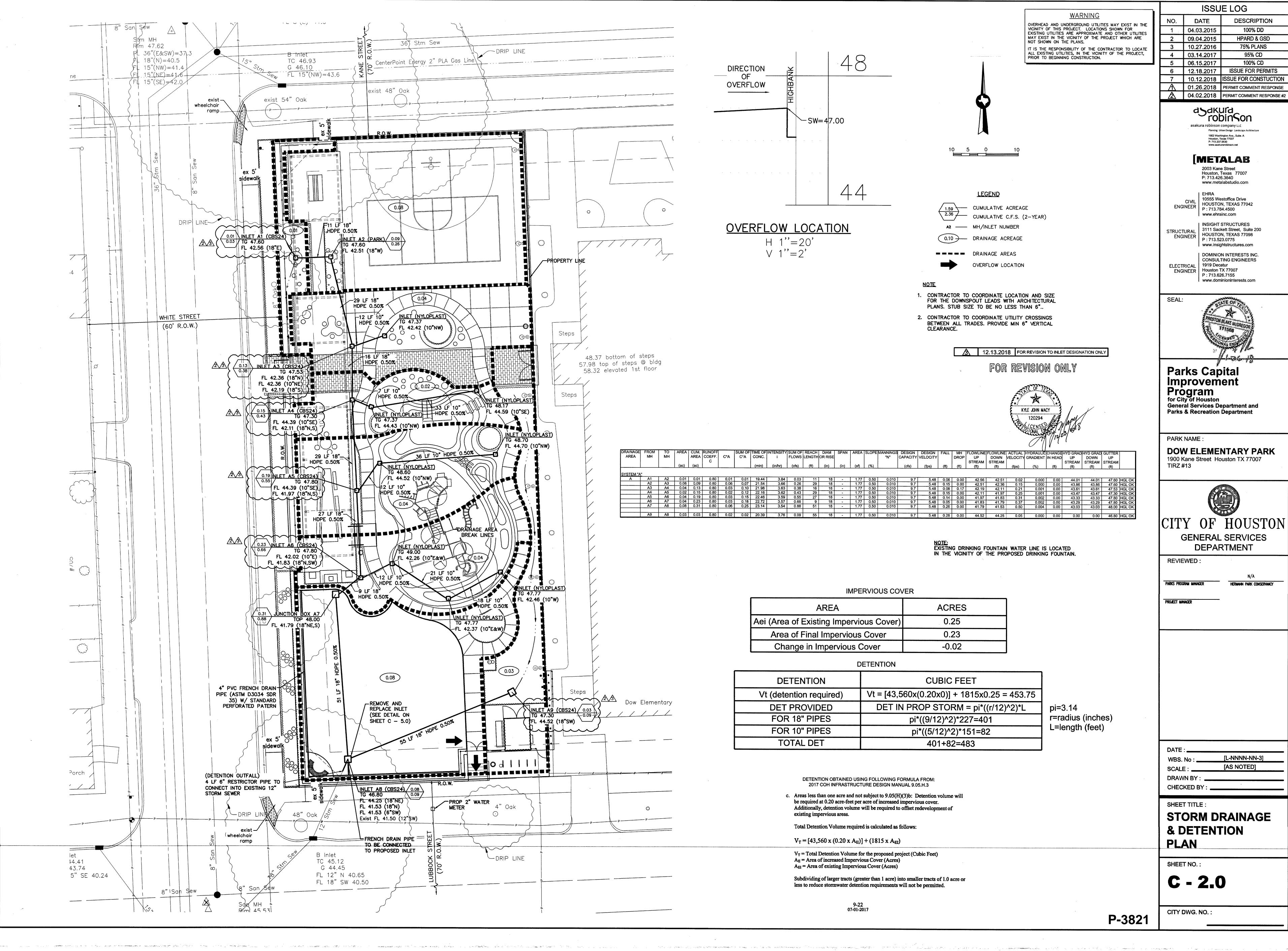
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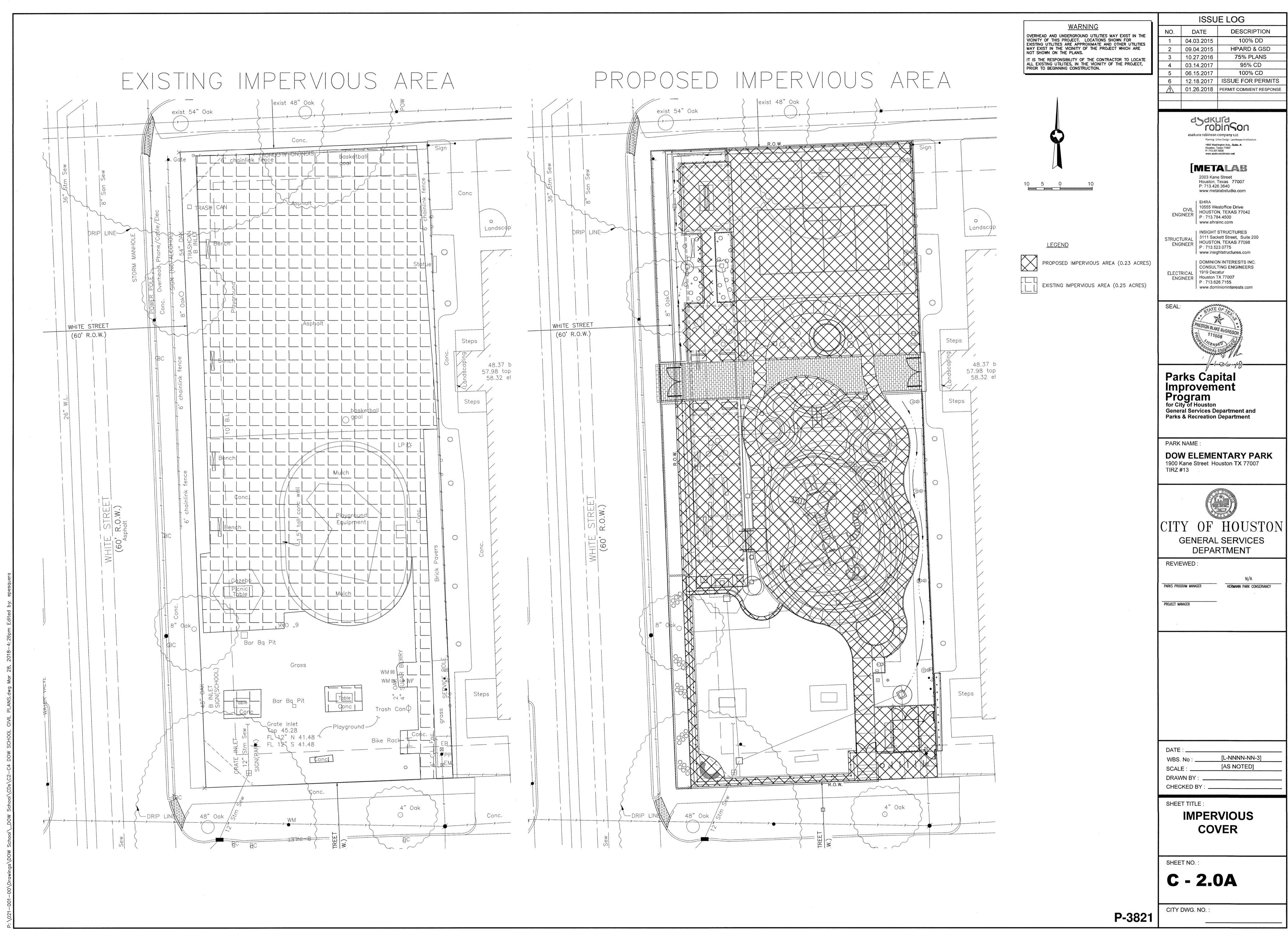
**DEMOLITION PLAN** 

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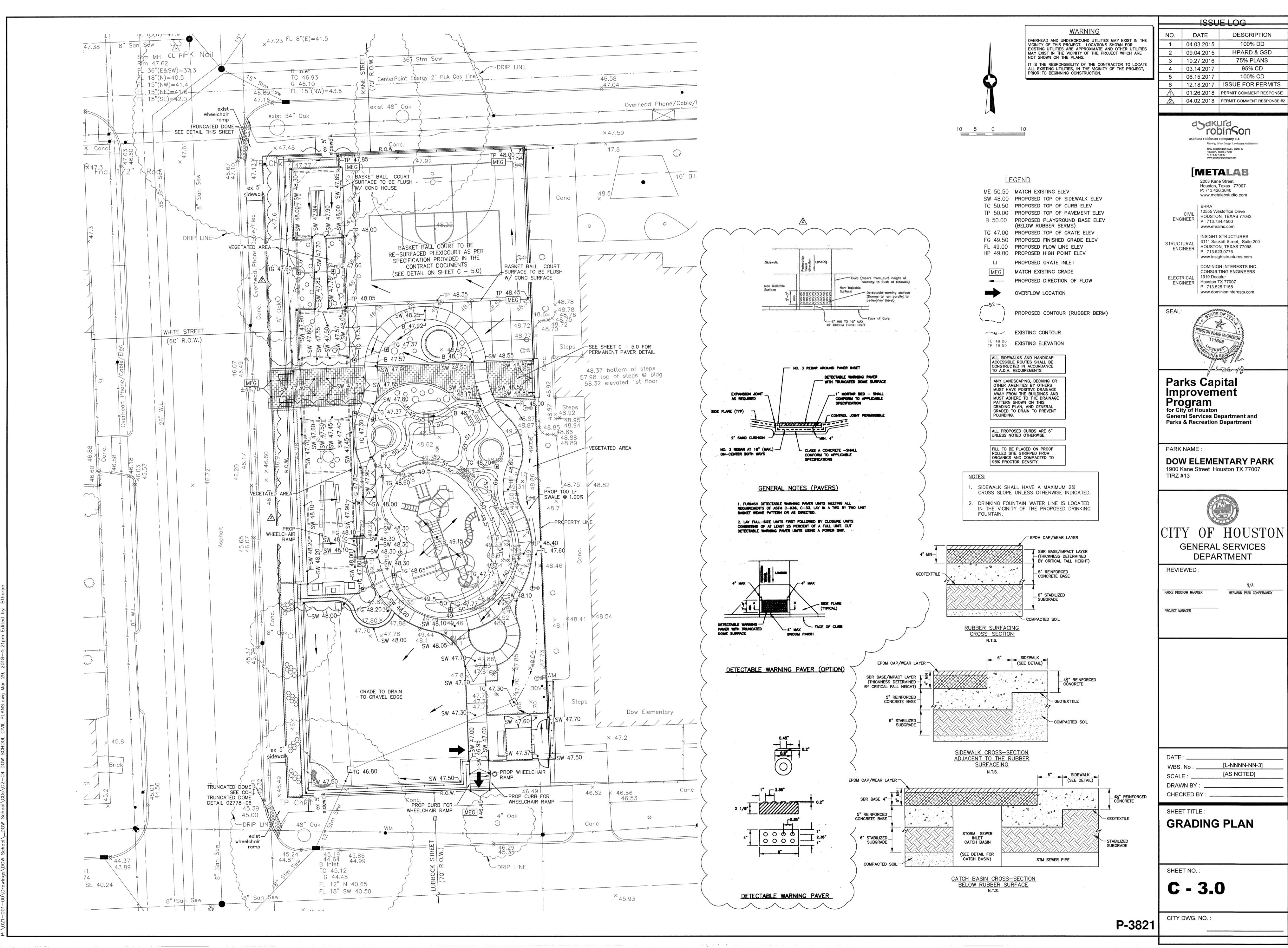
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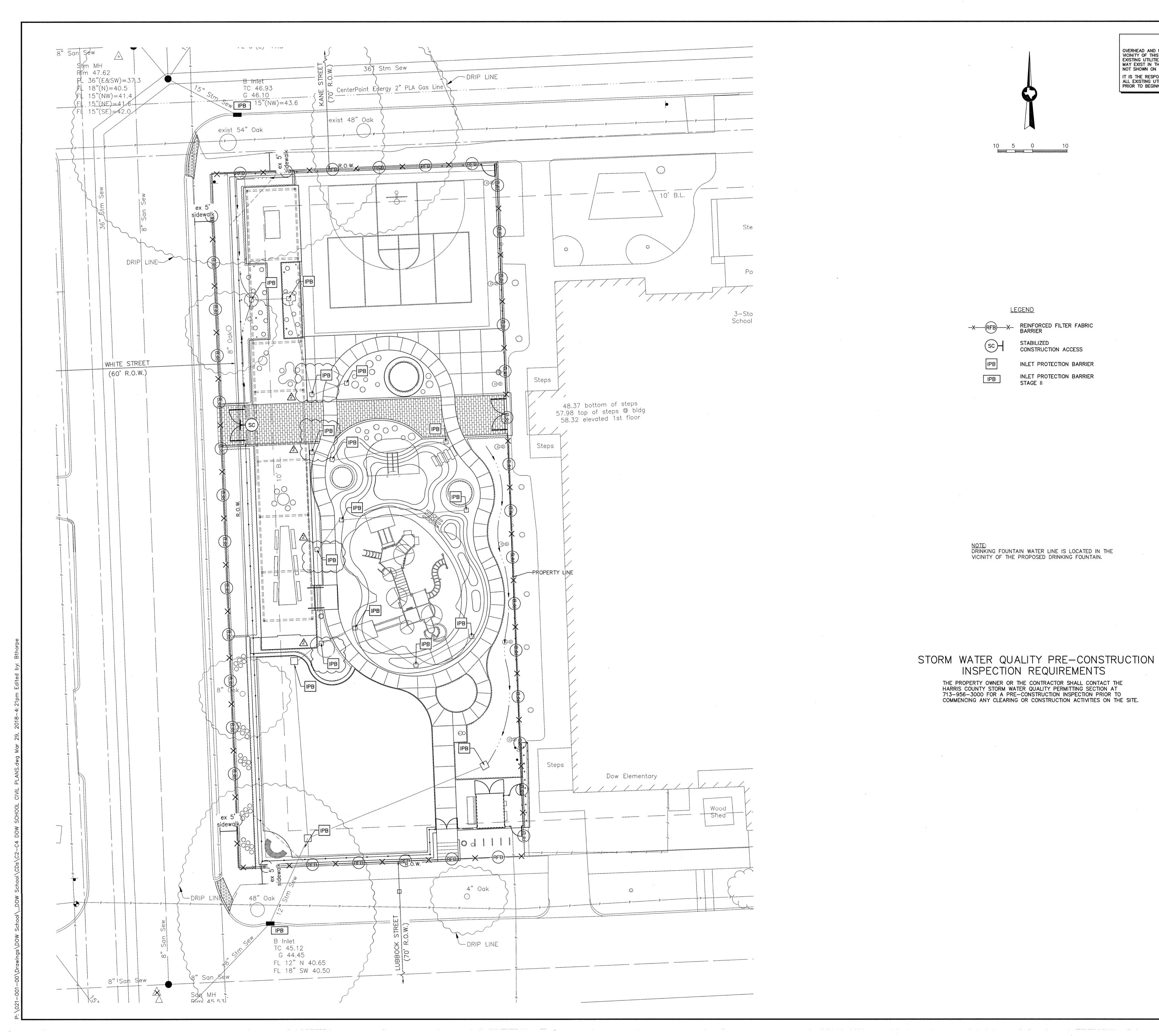
P-3821





01.26.2018 PERMIT COMMENT RESPONSE





WARNING

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**ISSUE LOG** DESCRIPTION DATE 04.03.2015 100% DD **HPARD & GSD** 09.04.2015 10.27.2016 75% PLANS 4 03.14.2017 95% CD 100% CD 06.15.2017 6 | 12.18.2017 | ISSUE FOR PERMITS 01.26.2018 PERMIT COMMENT RESPONSE 04.02.2018 PERMIT COMMENT RESPONSE #2

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Planning Urban Design Landscape Architecture

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SEAL:

PRESTON BLAKE MCGREGOR

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Parks Capital Improvement Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME :

**DOW ELEMENTARY PARK** 1900 Kane Street Houston TX 77007 TIRZ #13



GENERAL SERVICES

DEPARTMENT

REVIEWED:

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

ARKS PRUGRAM MANAGER HERMANI

PROJECT MANAGER

DATE:

WBS. No : [L-NNNN-NN-3]

SCALE : [AS NOTED]

DRAWN BY :

SHEET TITLE :

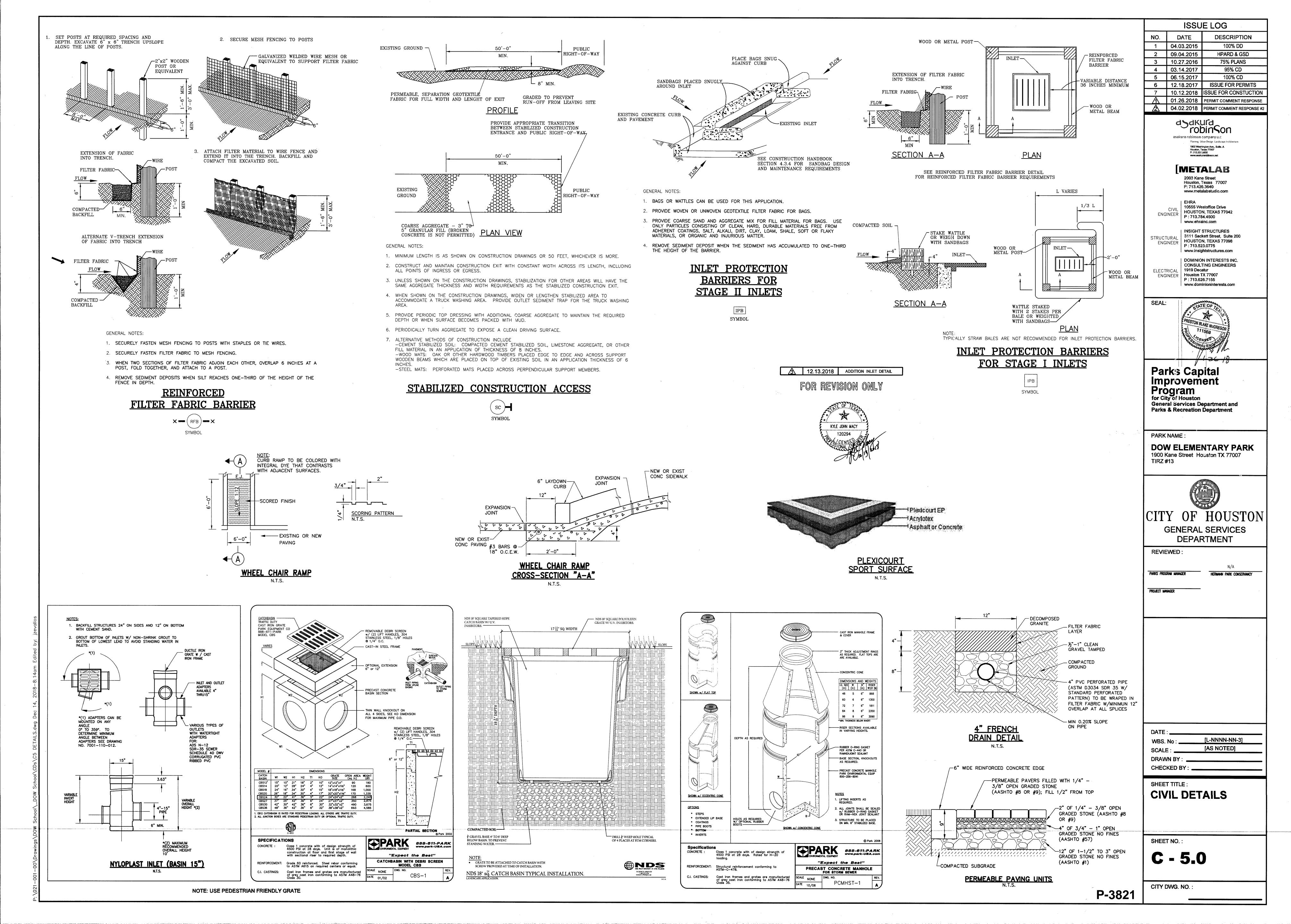
STORM WATER
POLLUTION
PREVENTION PLAN

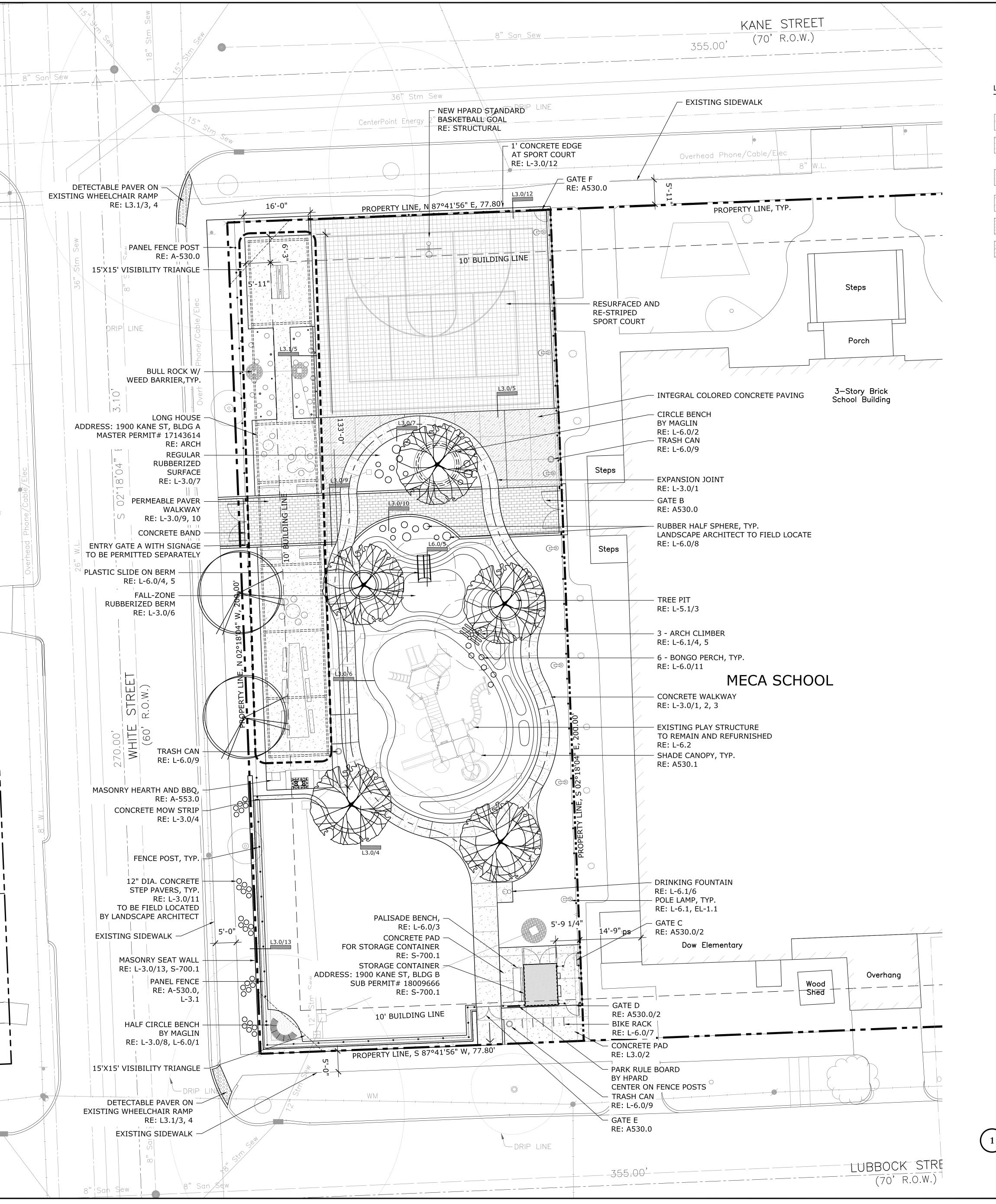
SHEET NO.:

**C** - 4.0

CITY DWG. NO. :

P-3821





LEGEND

CONCRETE PAVING

BASKETBALL COURT RESURFACE WITH PELXIPAVE COLOR TBD

DECOMPOSED GRANITE

FALL-ZONE RUBBER SURFACE

TYP. RUBBER SURFACE

INTEGRAL COLORED CONCRETE PAVING

CONCRETE PAVING (SQUARE FEET) - RIGHT-OF-WAY	1953.37 SQ. FT.
SIDEWALK (LINEAL FEET) - RIGHT OF WAY	376 LF
CONCRETE/DECORATIVE PAVING AND WALKWAY (SQUARE FEET) - ON SITE	3642.97 SQ. FT.
COLORED CONCRETE	587.69 SQ. FT.
PAVER AREA	714.84 SQ. FT.
RUBBERIZED AREA	3075.10 SQ. FT.
RESURFACED AREA	2727.52 SQ. FT.
	·

PARKING ORDINANCE					
PARK ACREAGE	0.36				
EXISTING OFF-STREET PARKING	0				
EXISTING ON-STREET PARKING	8				
REQUIRED PARKING	0				
PROPOSED PARKING	0				

BICYCLE SPACE					
PARK SIZE	15,550 SQ. FT.				
# REQUIRE SPACE	1 (1 FOR 5,000 - 25,000 SQ. FT.)				
# PROPOSED SPACE	10				

**ISSUE LOG** NO. DATE DESCRIPTION 100% DD 04.03.2015 50% CD 2 | 09.04.2015 75% CD 3 | 10.31.2016 95% CD 4 03.15.2017 100% CD 5 | 06.14.2017 100% CD 11.03.2017 PERMIT SET 12.18.2017 8 | 09.27.2018 | BID & CONSTRUCTION

> a sakura asakura robinson company LLC Planning Urban Design Landscape Architectu 1902 Washington Ave., Suite. A Houston, Texas 77007 P: 713.337.5830 www.asakurarobinson.net

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Parks Capital Improvement Program
for City of Houston
General Services Department and
Parks & Recreation Department

PARK NAME :

SEAL:

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13



DEPARTMENT

N/A PARKS PROGRAM MANAGER

HERMANN PARK CONSERVANCY

REVIEWED:

DATE:\_ [F-000870-0001] [AS NOTED] SCALE:

**CHECKED BY** 

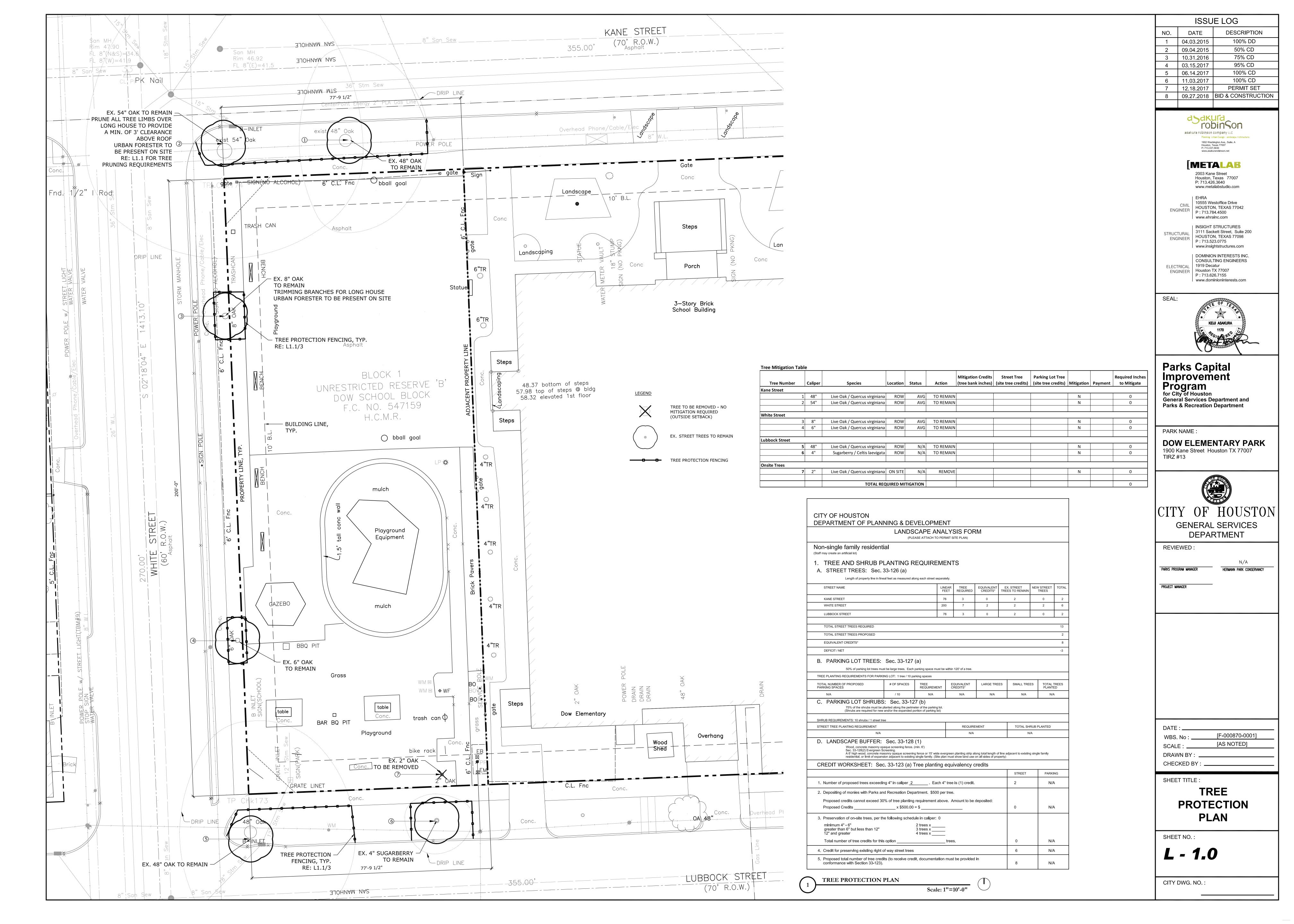
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SHEET NO.:

L - 0.0

CITY DWG. NO.:

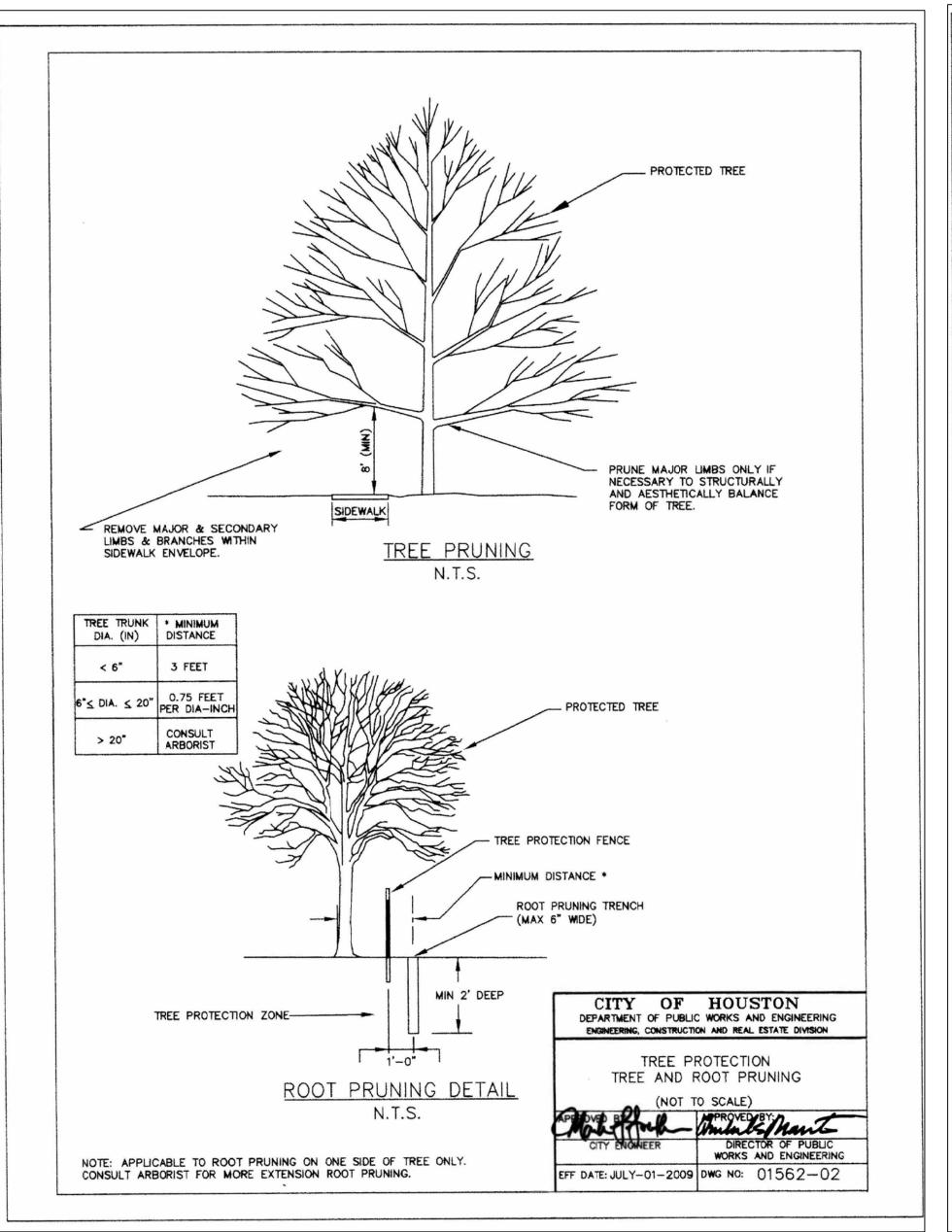
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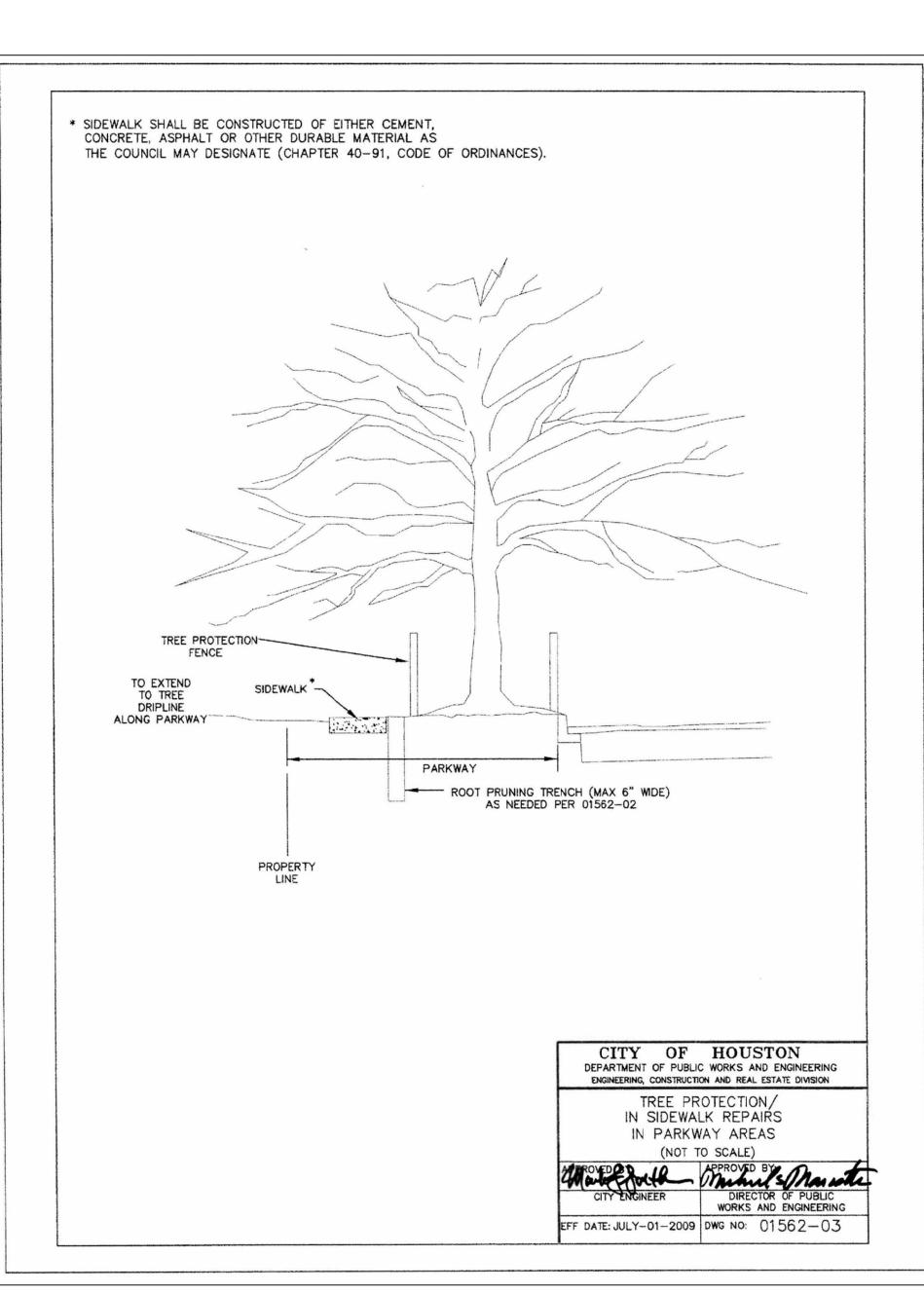
# TREE PROTECTION NOTES:

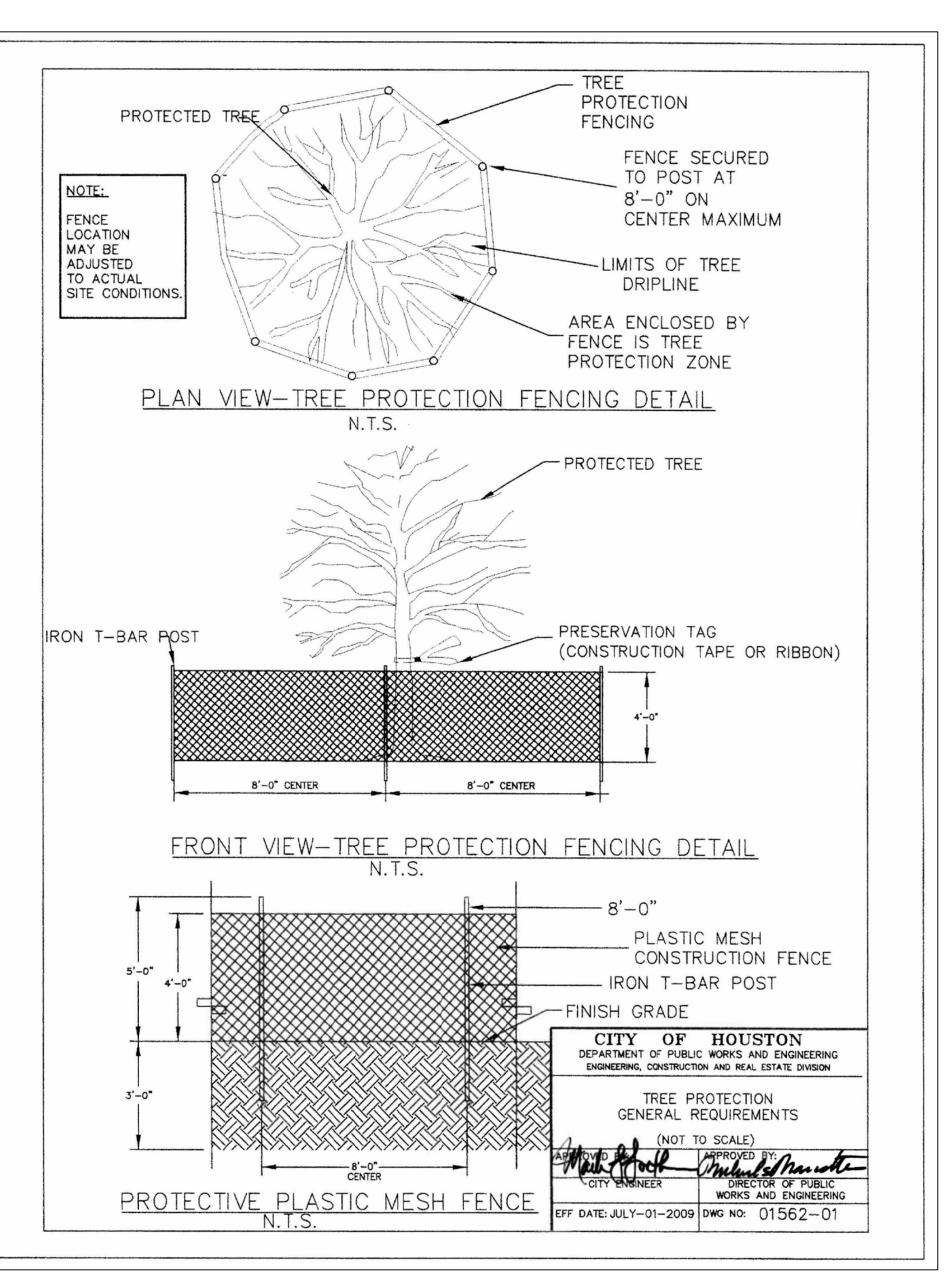
- 1. IT IS CRUCIAL THAT TREE PROTECTION FENCE MUST BE ERECTED PRIOR TO ANY SITE DEMOLITION BEGIN.
- 2. TREE PROTECTION FENCE SHALL BE A MIN. 5'-0' HIGH CHAIN LINK FENCE MOUNTED ON VERTICAL PIPES DRIVEN 2'-0" MIN. INTO THE GROUND, AT APPROX. 6'-8' O.C. REFER TO PLAN FOR LOCATIONS
- 3. PROTECTION FENCE SHALL BE PLACED AROUND CRITICAL ROOT ZONE OF ALL TREES TO BE RETAINED.
- 4. UPON APPROVAL BY OWNER OR LANDSCAPE ARCHITECT. OTHER FENCING MATERIAL MAY BE USED IN LIEU OF CHAIN LINK FENCE. SUCH AS:

  A. T-POSTS AT 8'-0" O.C. W/ 4' HT. BRIGHT ORANGE, LIGHT WEIGHT, REUSABLE MESH SAFETY FENCING MADE OF HIGH DENSITY POLYETHYLENE WITH 1 1/2" X 3" SIZE MESH OR SIMILAR MATERIAL.
- 5. UNDER NO CIRCUMSTANCES, DO NOT DRIVE OR PARK MACHINERY ON TREE ROOTS OR UNDER THE DRIPLINE.
- 6. AVOID DISTURBING ROOTS IN CRITICAL ROOT ZONE. IF ROOT CUTTING IS NECESSARY OR ANY DAMAGED ROOTS OCCURRED, THEY SHALL BE CUT CLEANLY WITH AN AXE A FEW INCHES CLOSER TO THE TRUNK. ANY COVERED/EXPOSED OR PRUNED TREE ROOTS MUST BE COVERED IMMEDIATELY WITH DIRT AND MULCH TO PREVENT ROOTS FROM DRYING OUT.
- 7. NO STORAGE OR CONCRETE DUMPING IS PERMITTED ON TREE ROOTS AND/OR UNDER DRIPLINE.
- 8. NO BUILDING MATERIALS ARE TO BE STACKED OR STOCKPILED WITHIN THE DRIPLINE OR WITHIN 6 FEET OF ANY TREE TO BE PRESERVED, WHICHEVER IS GREATER.
- 9. TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE DRIP LINE OR WITHIN 6 FEET OF ANY TREE TO BE PRESERVED, WHICHEVER IS GREATER.
- 10. AVOID DISTURBING ROOTS IN CRITICAL ROOT ZONE. ANY DAMAGED ROOTS SHALL BE CUT CLEANLY WITH AN AXE A FEW INCHES CLOSER TO THE TRUNK.
- 11. ANY UNCOVERED/EXPOSED TREE ROOTS SHALL BE IMMEDIATELY COVERED WITH MULCH.
- 12. ANY UNDERSTORY CLEARING WITHIN SIX FEET OF EXISTING TREE TRUNKS SHOULD BE DONE BY HAND.
- 13. CITY OF HOUSTON URBAN FORESTER MUST BE PRESENT AND APPROVE ANY ROOT CUTTING.
- 14. CONTRACTOR IS REQUIRED TO HIRE AN URBAN FORESTER TO MONITOR AND ASSIST WITH FIELD LAYOUT (EXACT LOCATIONS OF FENCING, ROOT PRUNING, AND ZERO CURB CUTBACK) OF THE TREE PRESERVATION PROGRAM DURING DEMOLITION AND CONSTRUCTION TO ENSURE TREE PROTECTION PROCEDURES AND TECHNIQUES ARE PRACTICED AS SPECIFIED TO ADDRESS CONCERNS AND CONDITIONS WHICH OCCUR IN THE FIELD. AT A APPROX., THE INDIVIDUAL RESPONSIBLE FOR MONITORING AND FIELD LAYOUT OF THE TREE PROTECTION SHALL HAVE AN APPROX. OF 5 YEARS OF EXPERIENCE AS A CONSULTANT, AND SHALL NOT BE AFFILIATED WITH A TREE CARE CONTRACTOR IN THE HOUSTON AREA. QUALIFICATIONS OF THE SELECTED URBAN FORESTER SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND CITY OF HOUSTON URBAN FORESTRY DEPARTMENT.
- 15. PROPOSED UTILITY WITHIN TREE PROTECTION ZONE SHALL BE EITHER BORE PIT, TUNNELING OR TRENCH EXCAVATION PER CITY OF HOUSTON OR CONTRACTOR ARBORIST RECOMMENDATION.
- 16. ALL CLEARANCE PRUNING AND ROOT PRUNING MUST BE REVIEWED AND APPROVED AT SITE AFTER THE SITE IS SURVEYED BEFORE PERFORMING BY HPARD, URBAN FORESTRY.
- 17. ALL PRUNING MUST BE PERFORMED IN ACCORDANCE WITH ANSI A300 (PART 1) 2021 AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS (PRUNING), OR LATEST APPROVED VERSION. THIS DOCUMENT MAY BE OBTAINED ONLINE FOR A FEE AT WWW.ANSI.ORG.
- 18. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. TO PREVENT BARD TEARS, THE WEIGHT OF THE BRANCH SHALL BE REMOVED BEFORE MAKING FINAL PRUNING CUT.
- 19. ONLY COLLAR CUTS ARE ACCEPTABLE. NO FLUSH CUTS OR STUB CUTS WILL BE ALLOWED.
- 20. ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.
- 21. PRUNING CUTS OR DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREEKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL). THE ALSO APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES OR EQUIPMENT.



TREE AND ROOT PRUNING







ISSUE LOG NO. DATE DESCRIPTION 100% DD 04.03.2015 2 | 09.04.2015 50% CD 10.31.2016 75% CD 95% CD 03.15.2017 100% CD 5 | 06.14.2017 11.03.2017 100% CD PERMIT SET 12.18.2017 8 | 09,27,2018 | BID & CONSTRUCTION

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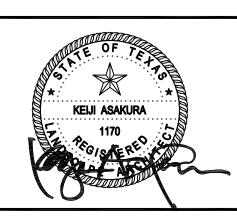
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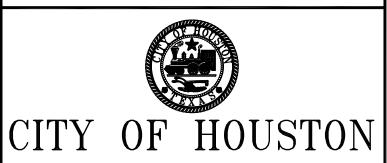
SEAL:



Improvement
Program
for City of Houston
General Services Department and
Parks & Recreation Department

PARK NAME :

**DOW ELEMENTARY PARK** 1900 Kane Street Houston TX 77007 TIRZ #13



GENERAL SERVICES

DEPARTMENT

REVIEWED:

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

PROJECT MANA

SHEET TITLE :

**CHECKED BY** 

TREE
PROTECTION
DETAILS

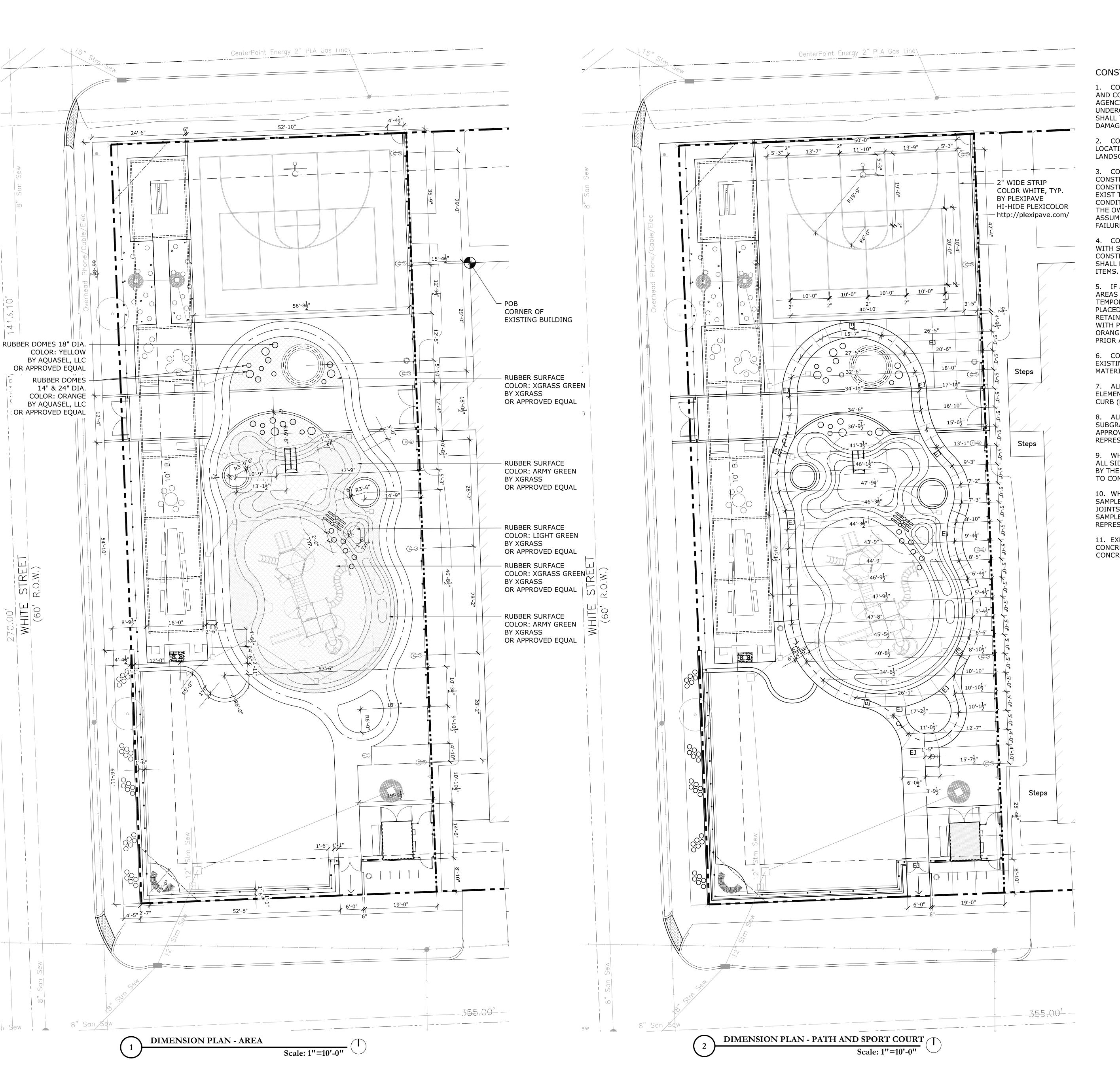
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L - 1.1

CITY DWG. NO. :

TREE PROTECTION / IN SIDEWALK REPAIRS IN PARKWAY AREAS

NTS



### CONSTRUCTION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE PLANS, AND CONSULTING WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES, IN ORDER TO DETERMINE THE LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.

2. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE ACCURATE LOCATION OF PROPERTY LINES, EASEMENTS, AND SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

3. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT CONSTRUCTIONS AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS, AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC., SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS

5. IF APPLICABLE, ALL EXISTING TREES AND TREE PRESERVATION AREAS SHALL BE PROTECTED PRIOR AND DURING CONSTRUCTION WITH TEMPORARY FENCING AS FOLLOWS. FENCE PROTECTION SHALL BE PLACED AROUND DRIP LINE OF ALL CLUSTERS OF TREES TO BE RETAINED. PROTECTION FENCE SHALL BE 5' METAL CHAIN LINK FENCE WITH POSTS AT 8'-0" O.C.. CONTRACTOR MAY USE 4' T-POST WITH 4' ORANGE FIBERGLASS FENCING OR SIMILAR MATERIAL ONLY WITH PRIOR APPROVAL BY OWNER OR LANDSCAPE ARCHITECT.

6. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION. MATERIALS INCLUDE EITHER HARDSCAPE AND LANDSCAPE.

7. ALL DIMENSIONS ARE MEASURED FROM FACE OF VERTICAL ELEMENTS. DIMENSIONS TAKEN FROM ROAD EDGE ARE FROM BACK OF CURB (B.O.C.) UNLESS OTHERWISE NOTED ON PLANS.

8. ALL CONSTRUCTION ITEMS FORMED WITH A COMPACTED SUBGRADE AND/OR REINFORCING STEEL SHALL BE OBSERVED AND APPROVED PRIOR TO INSTALLATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

9. WHEN IN DOUBT, CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL SIDEWALKS, WALLS, OR ANY HARDSCAPE ELEMENT FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO COMMENCING CONSTRUCTION.

10. WHEN REQUIRED BY OWNER, CONTRACTOR SHALL SUBMIT 4'X 4' SAMPLES (OR SIZE AS REQUESTED BY OWNER), OF ALL PAVING WITH JOINTS IN PLACE, PAVING ALTERNATES, FINISH AND COLORS. ALL SAMPLES SHALL BE APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE, PRIOR TO CONSTRUCTION.

11. EXPANSION JOINTS SHALL BE PLACED IN ALL CASES WHERE CONCRETE OR NEW PAVING ABUTS VERTICAL STRUCTURES OR CONCRETE CURB.

ISSUE LOG						
NO.	DATE	DESCRIPTION				
1	04.03.2015	100% DD				
2	09.04.2015	50% CD				
3	10.31.2016	75% CD				
4	03.15.2017	95% CD				
5	06.14.2017	100% CD				
6	11.03.2017	100% CD				
7	12.18.2017	PERMIT SET				
8	09.27.2018	BID & CONSTRUCTION				

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SEAL:

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Parks Capital Improvement Program for City of Houston General Services Department and

Parks & Recreation Department

PARK NAME :

**DOW ELEMENTARY PARK** 1900 Kane Street Houston TX 77007 TIRZ #13



DEPARTMENT

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

PROJECT MANAGEI

REVIEWED:

SCALE : [AS NOTED]

DRAWN BY : \_\_\_\_\_

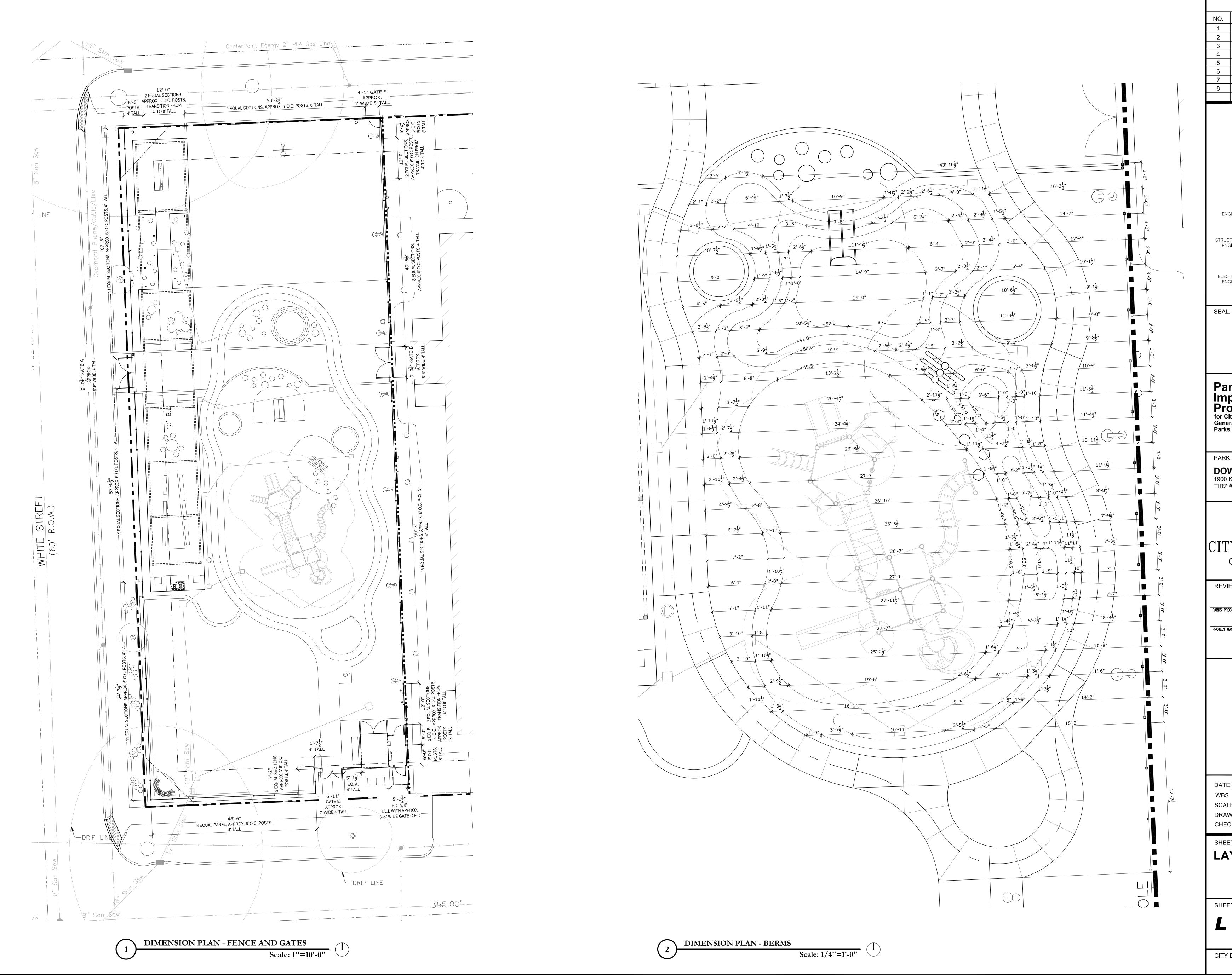
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SHEET TITLE:

LAYOUT PLANS

SHEET NO. :

L - 2.0



ISSUE LOG						
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Parks Capital Improvement
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PARK NAME :

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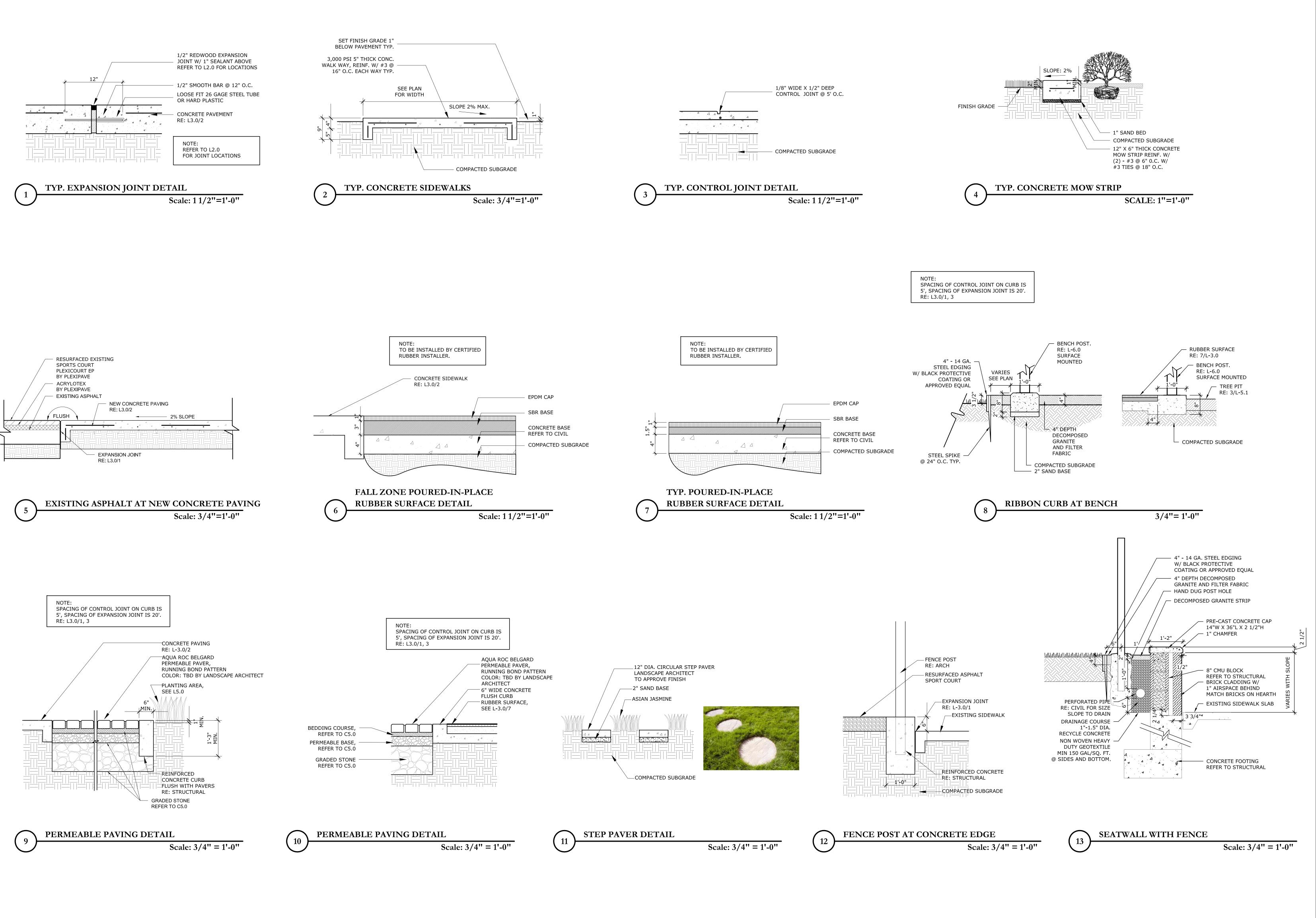
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N/A HERMANN PARK CONSERVANCY

[F-000870-0001] [AS NOTED] CHECKED BY: \_

SHEET TITLE: LAYOUT PLANS

L - 2.1



	ISSU	E LOG
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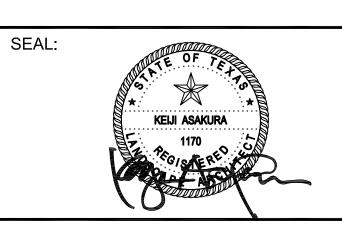
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Parks Capital
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General Services Department and
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PARK NAME :

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N/A

HERMANN PARK CONSERVANCY

DEPARTMENT REVIEWED:

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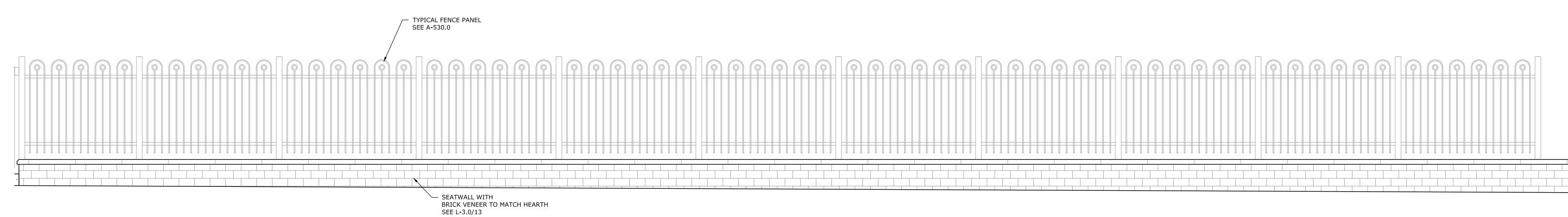
PARKS PROGRAM MANAGER

SHEET TITLE:

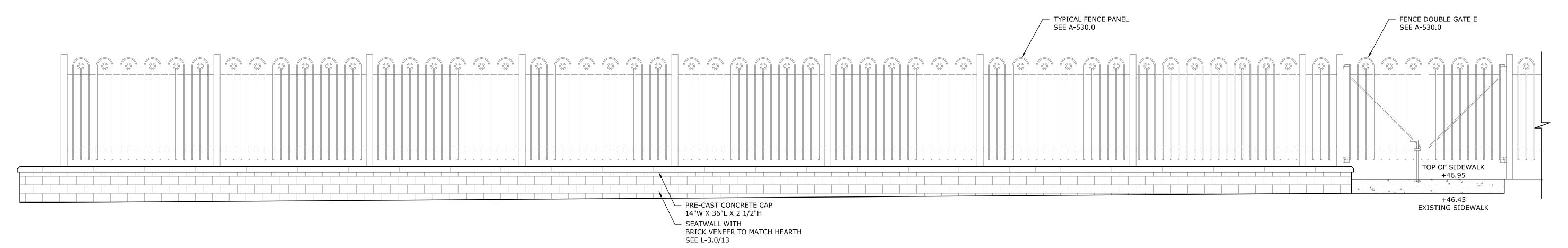
HARDSCAPE DETAILS

SHEET NO.:

L - 3.0

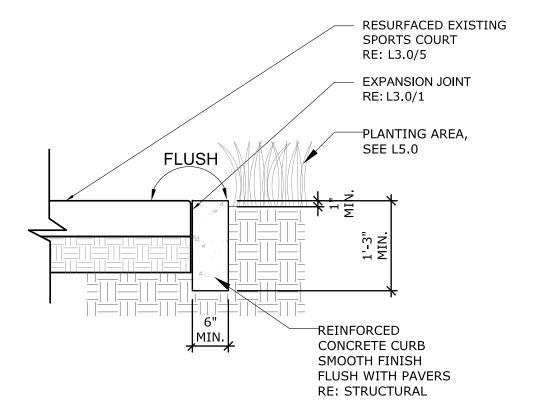


FENCE AND SEATWALL WEST ELEVATION
Scale: 1/2"=1'-0



FENCE AND SEATWALL SOUTH ELEVATION
Scale: 1/2"=1'-0"

NOTE:
SPACING OF CONTROL JOINT ON CURB IS
5', SPACING OF EXPANSION JOINT IS 20'.
RE: L3.0/1, 3



EXISTING ASPHALT AT CONCRETE CURB

Scale: 3/4"=1'-0"

ISSUE LOG					
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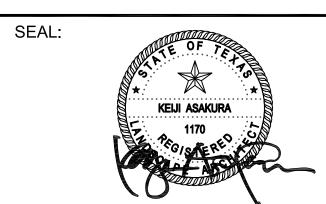
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Parks Capital Improvement Program
for City of Houston General Services Department and Parks & Recreation Department

PARK NAME :

DOW ELEMENTARY PARK
1900 Kane Street Houston TX 77007
TIRZ #13



DEPARTMENT

REVIEWED:

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

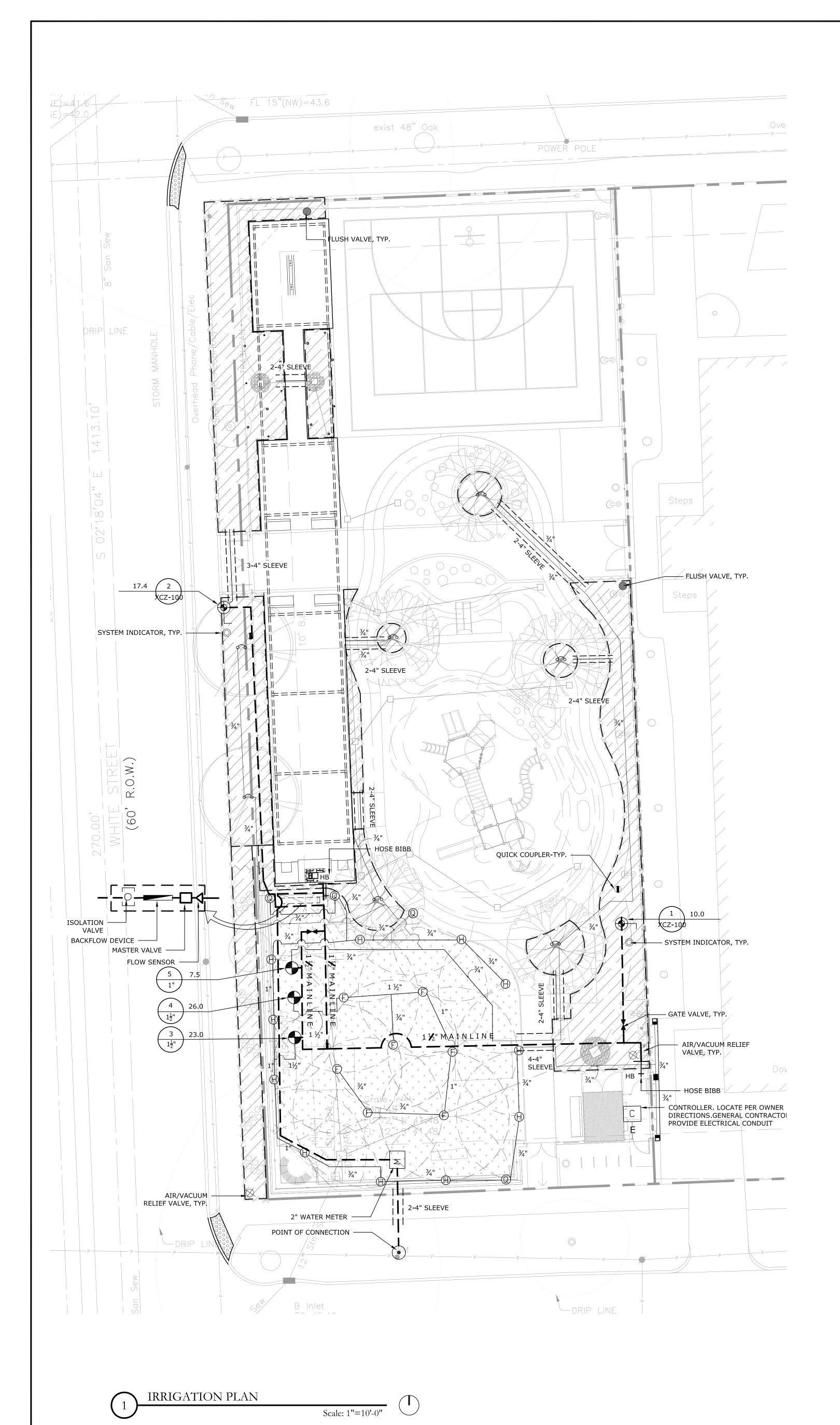
PROJECT MANAGER

SHEET TITLE:

HARDSCAPE DETAILS

SHEET NO.:

L - 3.1



### IRRIGATION NOTES:

- 1. PLANS AS SHOWN ARE DIAGRAMMATIC ONLY. ALL IRRIGATION VALVES, MAINLINES, QUICK COUPLERS, HEADS, ETC. ARE TO BE PLACED IN PLANTING AREAS. GATE VALVES AND REMOTE CONTROL VALVES SHALL BE PLACED IN SHRUB OR TALL GRASS AREAS WHERE POSSIBLE.
- LOCATE AND STAKES ALL UNDERGROUND CONDUITS AND UTILITIES ASSOCIATED WITH BUT NOT LIMITED TO: CTMS, CTMS POWER SUPPLY, LIGHTING, SIGNAL WIRES AND DETECTORSGAS, ELECTRICAL, TELEPHONE, FIBER OPTICS, ETC.
- LOCATE AND STAKES EXISTING GROUND BOXES, INLETS, CULVERTS, MANHOLES, ETC. WITHIN THE PROJECT AREA WITH A 4' WOODEN STAKE PAINTED ORANGE. MAINTAIN THE STAKES IN PLACE FOR DURATION OF CONTRACT. REMOVE STAKES AS DIRECTED BY LANDSCAPE ARCHITECT.
- CONDUCT A COMPLETE INVENTORY AND ANALYSIS OF SITE CONDITIONS, INCIDENTAL CONSTRUCTION SUCH AS BORING, MAINLINE ADJUSTMENT, SIDEWALK REMOVAL AND REPLACEMENT, UTILITY ADJUSTMENTS, ETC., WILL NOT BE PAID FOR SEPERATELY UNLESS SHOWN ON PLANS.
- 5. SEE IRRIGATION SCHEDULE AND DETAILS SHEETS FOR MATERIALS SPECIFICATIONS, SIZES AND REQUIREMENTS.
- 6. AT ANY TIME DURING ALL PHASES OF THE CONTRACT, ANY MATERIALS OR WORK PERFORMED NOT IN ACCORDANCE WITH THE PLANS AND SPEFICATIONS WILL BE REPLACED AND/OR REWORKED UNTIL IN COMPLIANCE.
- 7. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS ILLUSTRATED ON THE PLAN WHEN FIELD ANALYSIS REVEALS CONDITIONS AND/OR DIFFERENCES THAT MIGHT NOT HAVE BEEN CONSIDERED IN TH ENGINEERING. ANY ADJUSTMENTS DUE TO THE FAILURE TO COMPLY WITH PLANS AND SPECIFICATIONS SHOWN WILL BE AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL RECEIPT OF CERTIFICATION OF SUBSTANTIAL COMPLETION.
- THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE INSTALLATION OF 4" AND 6" SCH. 40 P.V.C. SLEEVES, AS SHOWN ON THE PLANS WITH GENERAL CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF METALLIC SLEEVES FEATURES SUCH AS CURB, WALKS, Walls, ETC.
- 10. ALL LATERAL LINE PIPING UNDER PAVING SHALL BE RUN THROUGH SCHEDULE 40 PVC INSTALLED PRIOR TO INSTALLATION OF PAVING.
- 11. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER SIZES WILL BE PERMITTED. ALL DAMAGED OR REJECTED PIPES SHALL BE REMOVED FROM SITE AND REPLACED IMMEDIATELY UPON REJECTION.
- 12. CONTRACTOR SHALL FLUSH AND ADJUST THE SYSTEM FOR OPTIMUM PERFORMANCE. THIS INCLUDES ADJUSTING THE PRESSURE REGULATING VALVE TO OBTAIN OPTIMUM PRESSURE, AND ADJUSTING NOZZLES FOR PROPER COVERAGE.
- 13. ADJUST RADIUS & ANGLE OF HEADS SO THAT WATER DOES NOT HIT BUILDINGS, WALLS, OR STREETS AS MUCH AS POSSIBLE.
- 14. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE
- 15. CONTRACTOR SHALL REVISE AND REPAIR PARTS OF THE SYSTEM DISTURBED DURING REPRESENTATIVE.

- 16. FILL AND GRADE SMOOTH ALL HOLES, DEPRESSIONS, AND RUTS THAT ARE THE RESULT OF WORK PERFORMED UNDER THIS CONTRACT. ALL AREAS ARE TO PROVIDE POSITIVE DRAINAGE AND
- THE CONTRACTOR SHALL CONSULT WITH LANDSCAPE ARCHITECT BEFORE INITIATING ANY PROPOSED MODIFICATIONS TO THE SYSTEM AS SHOWN ON THE PLANS.
- 18. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO APPLICABLE CODES AND REQUIREMENTS OF THE STATE OF TEXAS, CITY OF HOUSTON AND/OR THE COUNTY PROJECT IS LOCATED.
- 19. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR TREES. NO MECHANICAL TRENCHING SHALL BE PERMITTED BELOW THE CANOPY OF EXISTING TREES. CONTRACTOR SHALL ADJUST
- TRENCH PATH/OR EXCAVATE BY HAND TO AVOID DAMAGE TO EXISTING TREE ROOTS. 20. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER
- MAINLINE SHALL BE CAPPED AT LIMIT OF WORK AND CONTROLLER WIRES SHALL RUN FROM

CONTROLLER TO LIMIT OF WORK AND PLACED IN PULL BOX FOR FUTURE PHASES IF APPLICABLE.

- 22. IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIROMENTAL QUALITY (TCEQ) (MC-178) P.O. BOX 13087 AUSTIN TX, 78711-3087. www.tceq.state.tx.us
- 23. CONCTRACTOR TO INSTALL IRRIGATION HEADS AT 12" AWAY FROM BLDG
- FOUNDATION. ALL SHRUB/GROUND COVER HEADS SHALL BE ON 18" POPUP RISER. 24. CONTRACTOR TO PROVIDE AS BUILT DRAWINGS AFTER INSTALLATION. THE DRAWING SHOULD
- OUTLINE EACH ZONE CLEARLY.

MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

- 25. ALL WIRED SPLICE SHALL BE PLACED IN A VALVE BOX. 26. LOCATE MOISTURE SENSOR WITHIN 3' DIA OF WIRED SPLICE BOX. MARKED MOISTURE SENSOR
- 27. CONTRACTOR TO PROVIDE ONE EXTRA RED WIRE FROM CONTROLLER TO FURTHEST VALVE.
- 28. FURNISH THE LANDSCAPE ARCHITECT A SET OF AS-BUILT DRAWINGS ON REPRODUCIBLE 24X36 FILM BASE SHEETS UPON COMPLETION OF THE INSTALLATION OF THE IRRIGATION SYSTEM. THE AS-BUILT DRAWINGS WILL BE VERIFIED THAT THEY ARE A TRUE RECORD OF THE PROJECT CONDITIONS. SHOW ALL VALVE LOCATIONS ON DRAWINGS BY TRIANGULATION FROM A FIXED OBJECT. SHOW ACTUAL LOCATION OF MAIN AND LATERAL LINES FROM A FIXED OBJECT.
- 29. PROVIDE INSTRUCTIONS COVERING FULL OPERATION, CARE AND MAINTENANCE OF THE EQUIPMENT, INCLUDING A SCHEDULE SHOWING TIME EACH VALVE IS OPEN TO PROVIDE DETERMINED AMOUNT OF WATER, AND INSTRUCT PERSONNEL DESIGNATED BY ARCHITECT IN PROPER OPERATION OF THE SYSTEM.
- 30. 4" FOR GRASS. 12" FOR SHRUB/GROUND COVER.

LOCATIONS WITH A COLOR MARKER ON SITE.

31. CONTRACTOR TO PROVIDE POWER.

PSI

RADIUS

- 32. CONTRACTOR TO PROVIDE A FULLY OPERABLE, FUNCTIONING SYSTEM.
- 33. IRRIGATION CONTRACTOR WILL PLACE IN-GROUND BOXES FOR VALVES AND QUICK COUPLERS ALONG THE LAWN EDGE PER OWNER'S REQUEST TO PRESERVE OPEN LAWN FOR PLAY.

MODEL NO./MANUFACTURER

SPECIFIED.

CONSTRUCTION BEFORE FINAL INSPECTION BY THE LANDSCAPE ARCHITECT OR OWNER'S

# IRRIGATION SCHEDULE

MANUFACTURER

STMBOL	MANUFACTURER	MODEL NO./MANUFACTURER	'51	I NADIOS	GFII
9	RAINBIRD OR EQUAL	ROOT ZONE WATERING SYSTEM RWS-M-B-C-1402	25	1'-3'	0.5
	RAINBIRD OR EQUAL	XFS ON-SURFACE DRIPLINE @ 12" EMITTER & ROW SPACING	20	SEE DRAWINGS	0.60 GPH
$\mathbb{P} \mathbb{H} \mathbb{Q}$	RAIN BIRD	1804-PRS-HE VAN15 FOR GRASS 1812-PRS-HE VAN 15 FOR SHRUB/GROUND COVER	30	15'	3.70, 1.85, 0.93
	RAIN BIRD	CENTER STRIP 15 SST / SIDE STRIP - 15 LCS & 15 RCS	30	5' x 15'	1.21, 0.49
<b>—</b>	RED AND WHITE	LINE SIZE GATE VALVE			
	APPROVED	MAIN LINE -18" MIN. COVER (TO BE SCHEDULE 40 PVC, SEE SPECI SCHEDULE 80 PVC)	FICATION FOR		
	APPROVED	CLASS 200 PVC LATERAL LINE- MIN 12" COVER (1/2" DIA. PIPE TO BE CLASS 315)			
С	HYDROPOINT 12-48 STATIONS	WEATHERTRAK ET PRO 3 12 STATIONS OUTDOOR WITH WEATHER TRAX ET EVERY WHERE SERVICE & FLOW SENSOR, IN WALL MOUNTED STAINLESS STEEL ENCLOSURE. CONTRACTOR TO LOCATE CONTROLLER PER OWNER DIRECTIONS. http://hydropoint.com			
0	RAINBIRD	OPERIND - SYSTEM INDICATOR X17500			
	RAINBIRD OR EQUAL	FLUSH VALVE			
×	RAINBIRD OR EQUAL	AIR/VACUUM RELIEF VALVE			
<del>Н</del> В	APPROVED	LOCKABLE HOSE BIB  * CONTRACTOR TO PROVIDE PRODUCT SUBMITTAL AND GET A	APPROVAL PRIC	OR TO INSTALLA	TION.
	FEBCO	2" #765 PRESSURE BACKFLOW PREVENTER(with STRONG BOX encl	osure SBBC-22	2 AL, include lo	ck & key)
	APPROVED	SCH40 PVC SLEEVE SIZE AS SHOWN ON PLAN			
1 45.0		VALVE STATION NUMBER SYSTEM GALLONAGE			
1/2"		VALVE SIZE			
•	RAINBIRD	100/150-PEB SERIES VALVE REMOTE CONTROL VALVE (SIZE AS NOTED ON PLAN)			
<b>(</b>	RAINBIRD	XCZ-100-PRB-COM CONTROL KIT WITH 25 PSI PRESSURE REGULATOR			
$\nabla$	DATA INDUSTRIAL	FLOW SENSOR: 2" DATA INDUSTRIAL			
	RAINBIRD	MASTER VALVE : PEB SERIES			
	RAINBIRD	1" 5-LRC BRASS QUICK COUPLING VALVE OR EQUAL PROVIDE WA PURPLE LID & CAP	STE WATER CA	AUTION STICKE	RS,
М	APPROVED	2" WATER METER VERIFY LOCATION ON SITE			
[0]	APPROVED	BRASS ISOLATION VALVE			
E	APPROVED	2" ELECTRICAL CONDUIT FOR WIRES FROM CONTROLLER TO VALVE	ES		

- ALL VALVE BOX TO BE RECTANGLE 12X18 OR LARGER, CARSON BRAND

DESIGN PRESSURE: 45 PSI

**ISSUE LOG** DESCRIPTION DATE NO. 04.03.2015 100% DD 50% CD 09.04.2015 10.10.2016 75% CD 03.15.2017 95% CD 100% CD 06.14.2017 11.03.2017 100% CD 12.18.2017 PERMIT SET 09.27.2018 | BID & CONSTRUCTION



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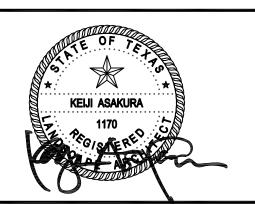
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**Parks Capital** Improvement Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME :

**DOW SCHOOL PARK** 1900 Kane Street Houston TX 77007 TIRZ #13



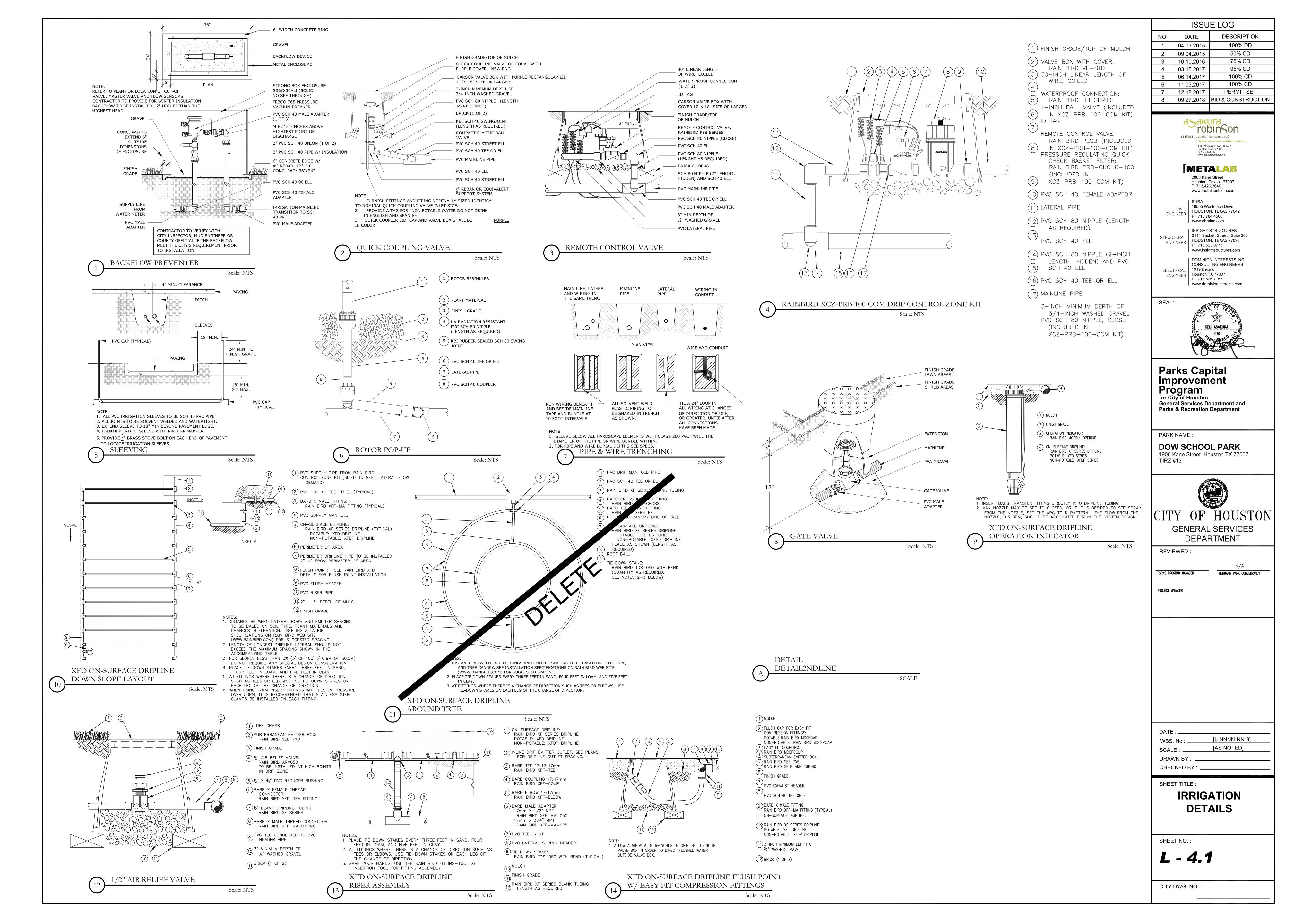
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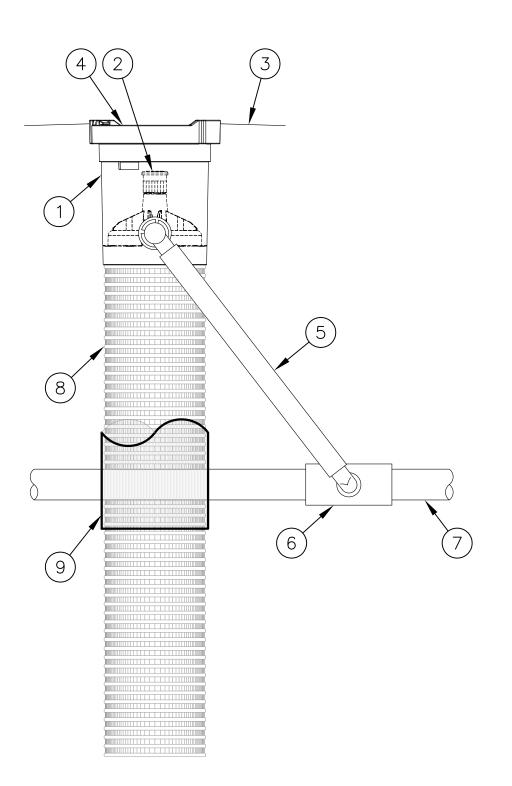
DEPARTMENT

[L-NNNN-NN-3] [AS NOTED]

SHEET TITLE: **IRRIGATION PLAN** 

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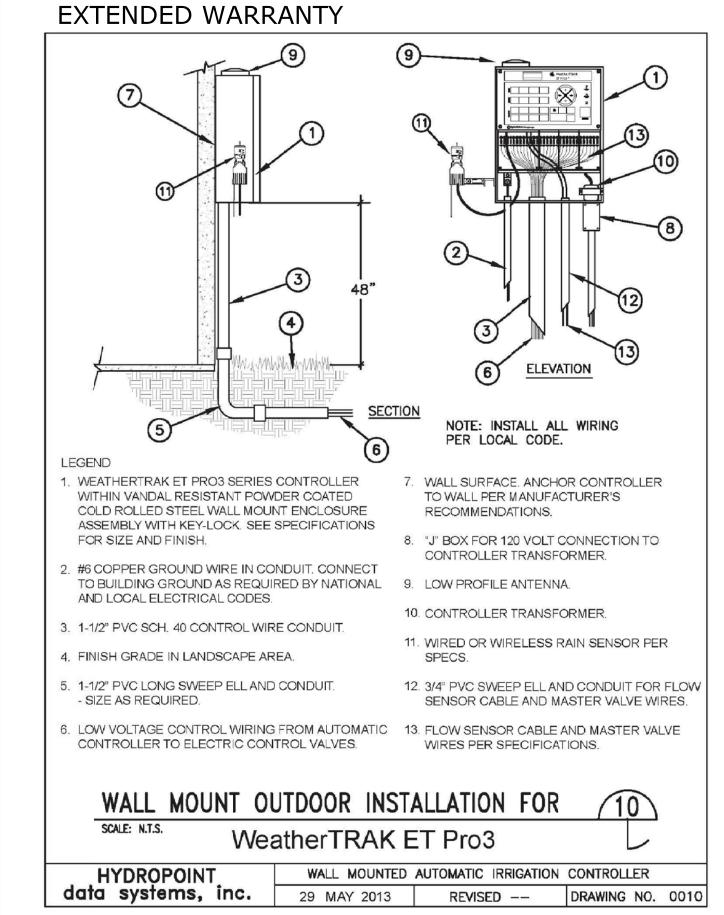


- (1) RAIN BIRD RWS-M-B-1402 (INCLUDES RETAINER, 18" (45,7) CM) TUBE, 0.5 GPM (1,9 L/M) BUBBLER, 4" (10,2 CM) GRATE, 1/2" (1,3 CM) M NPT INLET SPIRAL BARB ELBOW)
- 2 BUBBLER: RAIN BIRD 1402 0.5 GPM (1,9 L/M) (INCLUDED)
- (3) FINISH GRADE/TOP OF MULCH
- 4 4" (10,2 CM) LOCKING GRATE (INCLUDED)
- (5) 1/2" (1,3 CM) SWING ASSEMBLY: RAIN BIRD SA-125050
  - 1/2" (1,3 CM) SWING PIPE: RAIN BIRD SP SERIES WITH 1/2" (1,3 CM) MALE NPT x 0.490" BARB ELBOW: RAIN BIRD SBE-050
- PVC SCH 40 TEE OR EL
- PVC OR POLYETHYLENE LATERAL PIPE
- 4" (10,2 CM) WIDE X 18" (45,7 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
  - OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS

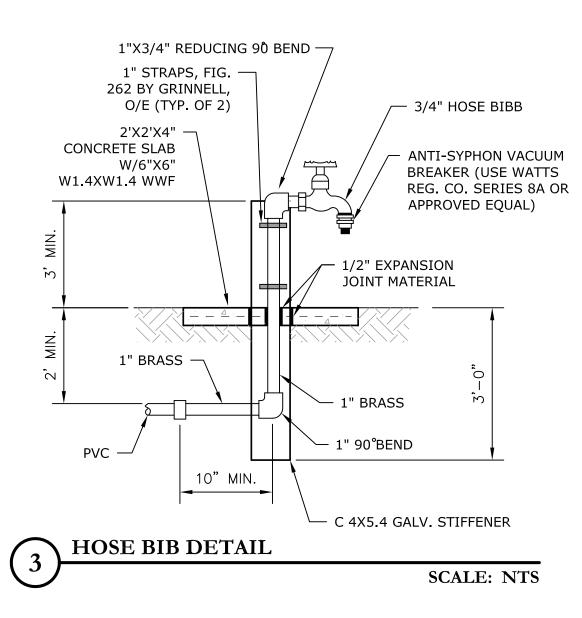
RAIN BIRD RWS-M-B-1402 (INCLUDES RETAINER, 18" (45,7 CM) TUBE, 0.5 GPM (1,9 L/M) BUBBLER & CHECK VALVE ON RISER, 4" (10,2 CM) GRATE, 1/2" (1,3 CM) M NPT INLET SPIRAL BARB ELBOW

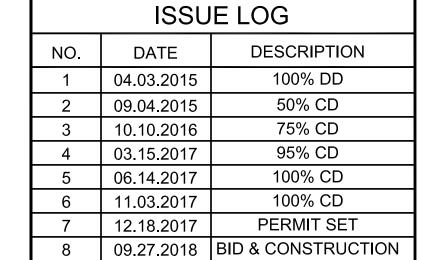
- 1. 4" (10,2 CM) GRATE IS ALSO AVAILABLE IN PURPLE (RWS-GRATE-P). 2. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
- 3. OPTIONAL SAND SOCK (RWS-SOCK) IS 34" (86,4 CM) IN LENGTH. CUT TO LENGTH NEEDED TO COVER MESH BASKET AREA. 4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
- 5. ONCE RWS-M HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

# INCLUDE 5 YEARS OF ET SERVICE AND A 5 YEAR











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SEAL:

**Parks Capital** 

Improvement Program
for City of Houston
General Services Department and
Parks & Recreation Department

PARK NAME:

DOW SCHOOL PARK 1900 Kane Street Houston TX 77007 TIRZ #13



DEPARTMENT REVIEWED:

WBS. No : [L-NNNN-NN-3] [AS NOTED] DRAWN BY: \_\_\_\_\_

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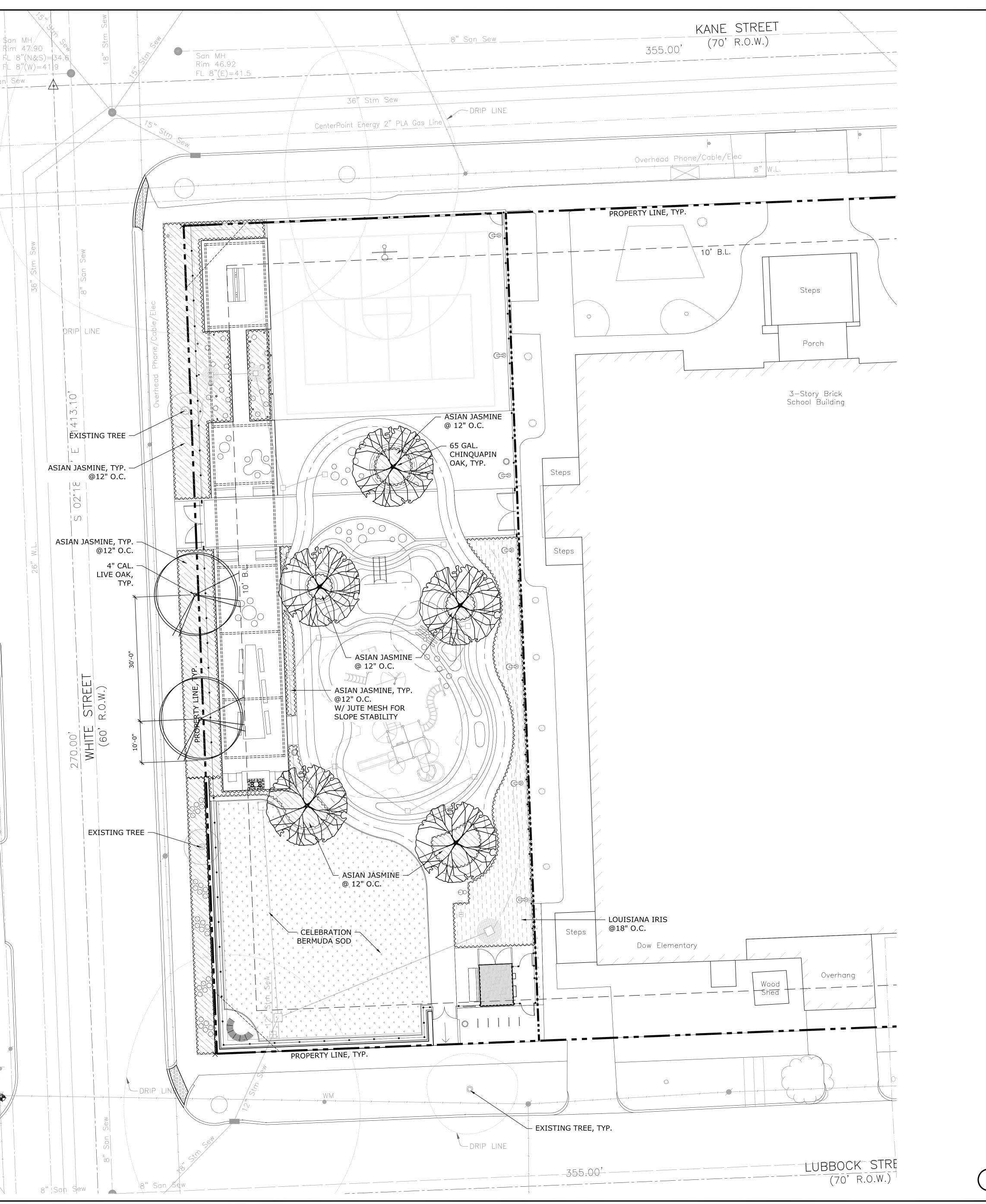
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**IRRIGATION DETAILS** 

SHEET NO.:

CITY DWG. NO.:

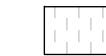
RAINBIRD ROOT WATERING SYSTEM Scale: NTS



# PLANT LEGEND



2" CAL. CHINQUAPIN OAK







4" CAL. LIVE OAK





ASIAN JASMINE, 1 GAL.



'CELEBRATION' BERMUDA GRASS

CITY OF HOUSTON

(Staff may create an artificial lot)

STREET NAME

KANE STREET

WHITE STREET LUBBOCK STREET

TOTAL STREET TREES REQUIRED

TOTAL STREET TREES PROPOSED

B. PARKING LOT TREES: Sec. 33-127 (a)

TREE PLANTING REQUIREMENTS FOR PARKING LOT: 1 tree / 10 parking spaces

C. PARKING LOT SHRUBS: Sec. 33-127 (b)

D. LANDSCAPE BUFFER: Sec. 33-128 (1)

EQUIVALENT CREDITS\*

TOTAL NUMBER OF PROPOSED PARKING SPACES

SHRUB REQUIREMENTS: 10 shrubs / 1 street tre

STREET TREE PLANTING REQUIREMENT

Proposed Credits \_\_\_\_\_

minimum 4" - 6" greater than 6" but less than 12" 12" and greater

Total number of tree credits for this option \_

4. Credit for preserving existing right of way street trees

DEFICIT / NET

Non-single family residential

A. STREET TREES: Sec. 33-126 (a)

DEPARTMENT OF PLANNING & DEVELOPMENT

1. TREE AND SHRUB PLANTING REQUIREMENTS

Length of property line in lineal feet as measured along each street separately.

50% of parking lot trees must be large trees. Each parking space must be within 120' of a tree.

# OF SPACES

/ 10

CREDIT WORKSHEET: Sec. 33-123 (a) Tree planting equivalency credits

Proposed credits cannot exceed 30% of tree planting requirement above. Amount to be deposited:

\_\_ x \$500.00 = \$ \_\_

4 trees x \_\_\_\_

1. Number of proposed trees exceeding 4" in caliper 2 . Each 4" tree is (1) credit.

2. Depositing of monies with Parks and Recreation Department. \$500 per tree.

3. Preservation of on-site trees, per the following schedule in caliper: 0

75% of the shrubs must be planted along the perimeter of the parking lot. (Shrubs are required for new and/or the expanded portion of parking lot)

TREE REQUIREMENT

EXISTING TREE

CELEBRATION BERMUDA GRASS

PLANT	SCHEDULE				
QUANTITY	COMMON NAME / BOTANICAL NAME	SIZE CALIPER	HEIGHT	SPREAD	COMMENTS
	TREES				
5	CHINQUAPIN OAK QUERCUS MUEHLENBERGII	2" CAL. 65 GAL.	10'-12'	6'-8'	CONTAINER GROWN, FULL & WELL BRACHED PLANTED
2	LIVE OAK QUERCUS VIRGINIANA	4" CAL. 65 GAL.	12'-14'	8'-10'	CONTAINER GROWN, FULL & WELL BRANCHED PLANTED
	GROUNDCOVER				
1976 SF	ASIAN JASMINE TRACHELOSPERMUM ASIATICUM	1 GAL.	10"-12"	10"-12"	CONTAINER GROWN, FULL & WELL ROOTED PLANTED @ 12" O.C. TRIANGULATED SPACING
685 SF	LOUISIANA IRIS IRIS ser Hexagonae	1 GAL.	18"-24"	10"-12"	CONTAINER GROWN, FULL & WELL ROOTED PLANTED @ 18" O.C. TRIANGULATED SPACING
	GRASS		•		
2516 SF	CELEBRATION BERMUDA GRASS	N/A	N/A	N/A	SOLID SOD AS SHOWN

LANDSCAPE ANALYSIS FORM

(PLEASE ATTACH TO PERMIT SITE PLAN)

LINEAR TREE EQUIVALENT EX. STREET NEW STREET TOTAL FEET REQUIRED CREDITS\* TREES TO REMAIN TREES

LARGE TREES

REQUIREMENT

Sec. 33-128(2) Evergreen Screening.

A 6' high wood, concrete masonry opaque screening fence or 15' wide evergreen planting strip along total length of line adjacent to existing single family residential, or limit of expansion adjacent to existing single family. (Site plan must show land use on all sides of property)

SMALL TREES

TOTAL SHRUB PLANTED

PARKING

N/A

N/A

N/A

N/A

N/A

STREET

DESCRIPTION DATE 04.03.2015 100% DD 09.04.2015 50% CD 75% CD 10.31.2016 03.15.2017 95% CD 100% CD 06.14.2017 11.03.2017 100% CD PERMIT SET 12.18.2017 09.27.2018 BID & CONSTRUCTION

**ISSUE LOG** 

robinSon asakura robinson company LLC Planning Urban Design Landscape Architecture 1902 Washington Ave., Suite. A Houston, Texas 77007 P: 713.337.5830 www asakurarobinson net

> METALAB 2003 Kane Street Houston, Texas 77007

P: 713.426.3640

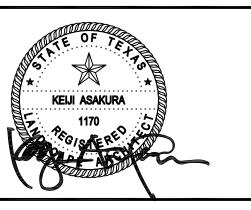
www.metalabstudio.com 10555 Westoffice Drive HOUSTON, TEXAS 77042 ENGINEER | P:713.784.4500

www.ehrainc.com | INSIGHT STRUCTURES 3111 Sackett Street, Suite 200 STRUCTURAL ENGINEER HOUSTON, TEXAS 77098 P:713.523.0775 www.insightstructures.com

| DOMINION INTERESTS INC. CONSULTING ENGINEERS ELECTRICAL | 1919 Decatur ENGINEER | Houston TX 77007 P:713.626.7155

www.dominioninterests.com

SEAL:



**Parks Capital** Improvement Program
for City of Houston
General Services Department and
Parks & Recreation Department

PARK NAME :

DOW SCHOOL PARK 1900 Kane Street Houston TX 77007 TIRZ #13



GENERAL SERVICES

DEPARTMENT

**REVIEWED:** 

N/A HERMANN PARK CONSERVANCY

[F-000870-0001] [AS NOTED]

CHECKED BY: SHEET TITLE:

**DRAWN BY:** 

LANDSCAPE PLAN

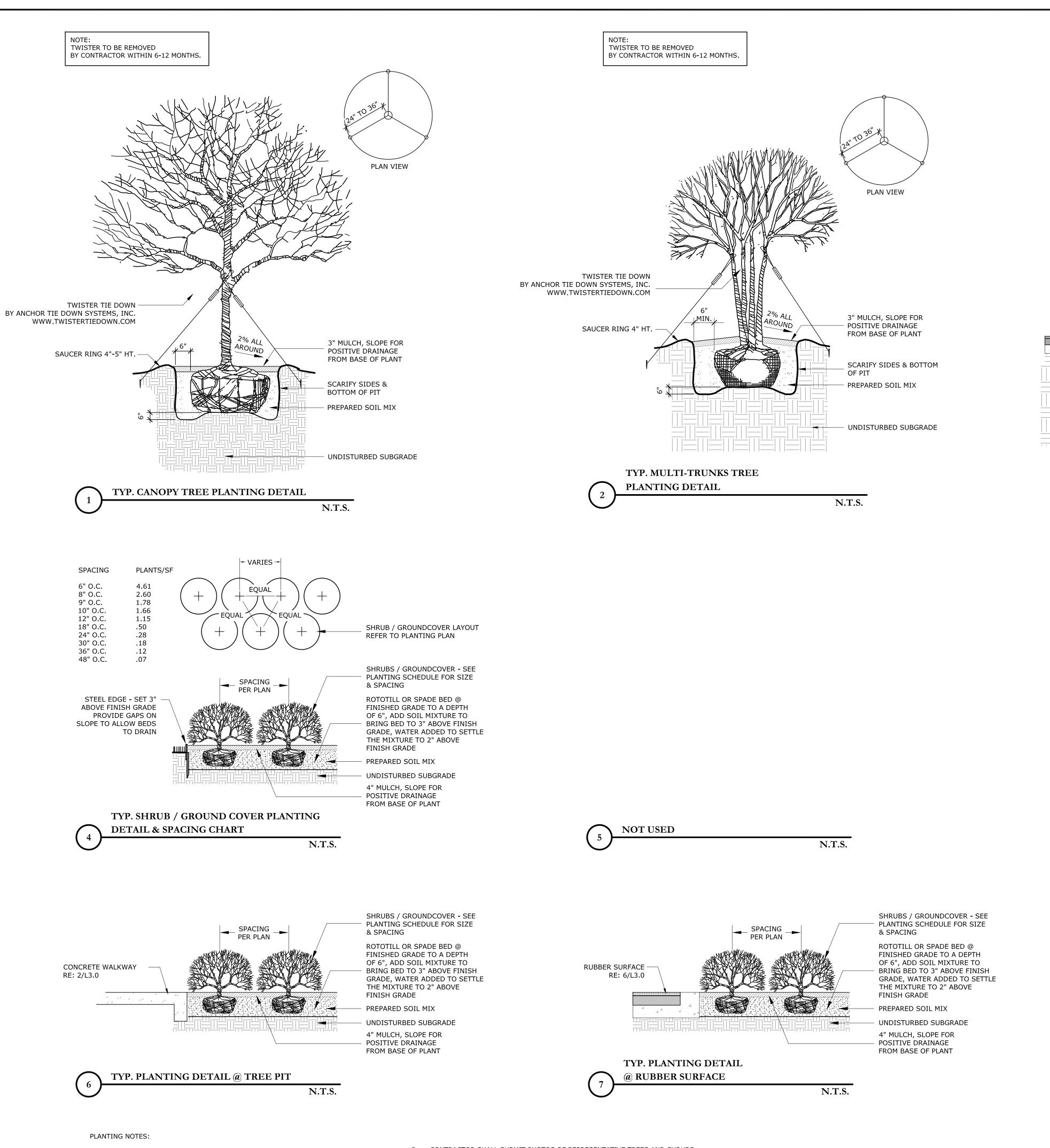
SHEET NO.:

L - 5.0

CITY DWG. NO.:

PLANTING PLAN

Proposed total number of tree credits (to receive credit, documentation must be provided in conformance with Section 33-123).



1. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE

RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF THESE UTILITIES. 2. CONTRACTOR SHOULD NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED, WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT UP TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATION.

4. LANDSCAPE CONTRACTOR TO RECEIVE SITE GRADE TO +0.10. CONTRACTOR SHALL OBTAIN LETTER OF GRADE CERTIFICATION FROM OWNER PRIOR TO PROJECT EXECUTION.

5. CONTRACTOR SHALL NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE 72 HOURS

(WEEKENDS NOT INCLUDED) PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT OBSERVATION SCHEDULE.

6. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS ON PLANS OR LAYOUT OF PLANS, CONTRACTOR SHOULD CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTORS LIABILITY TO RELOCATE THE MATERIAL.

7. PROTECT ALL EXISTING TREES TO REMAIN. CONTRACTOR SHALL REPLACE ANY TREES DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE FENCING, IF NECESSARY, AT THE TREE DRIP LINE TO PROTECT TRUNK AND ROOTS AND TO PREVENT COMPACTION FROM VEHICLE TRAFFIC OR MATERIAL STORAGE ON THE SOIL BELOW TREES. CONTRACTOR SHALL PROVIDE FOR THE FEEDING, WATERING AND GENERAL MAINTENANCE OF TREES TO KEEP THEM IN A HEALTHY CONDITION DURING CONSTRUCTION.

8. CONTRACTOR SHALL SUBMIT PHOTOS OF REPRESENTATIVE TREES AND SHRUBS WITH SPECIFICATIONS ON THE BACK OF PHOTO INCLUDING HEIGHT, WIDTH AND CALIPER. IF A NURSERY VISIT IS REQUIRED THE CONTRACTOR WILL ARRANGE TO HAVE THE PARTICULAR NURSERIES PREPARED TO SHOW TREES. SHOULD CONTRACTOR INSTALL PLANT MATERIAL INFERIOR TO INDUSTRY STANDARD, IT IS AT HIS OWN RISK. ALL PHOTO SUBMITTALS ARE TO BE APPROVED PRIOR TO PLANTING. 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIALS FREE OF PESTS AND DISEASES. PRE-SELECTED OR "TAGGED" MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S OBLIGATION TO GUARANTEE ALL PLANT MATERIALS PER THE

10. CONTRACTOR SHALL STAKE ALL FINAL TREE LOCATIONS AND PLANTING BED LIMITS IN THE FIELD FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO

INSTALLATION.

11. STEEL EDGING SHALL BE PLACED BETWEEN ALL SHRUB BEDS AND TURF AREAS, AS WELL AS BETWEEN GRAVEL BED AND PLANTING BEDS.

12. UPON INSTALLATION ALL TREE MATERIALS SHALL BE STAKED ACCORDING TO SPECIFICATIONS AND PLANTING DETAILS.

13. TREE MATERIAL SHALL BE PLANTED A MINIMUM OF 5'-0" FROM ANY PROPOSED OR EXISTING STREET CURBS AND PAVED AREAS, UNLESS OTHERWISE NOTED ON THE

14. CONTRACTOR SHALL INSTALL DEEP/ROOT BARRIERS AT ALL TREES WITHIN 5'-0" OF CONCRETE WALKWAYS, STRUCTURES, WALLS, CURBS, ETC.

15. ALL PLANTS SHALL BE TRIANGULARLY SPACED UNLESS OTHERWISE INDICATED. 16. ALL PLANTING BEDS SHALL RECEIVE A MINIMUM OF 3" OF APPROVED SHREDDED

17. CONTRACTOR SHALL FINE GRADE ALL DISTURBED AREAS TO PROVIDE FOR PROPER DRAINAGE.

PLAN VIEW TWISTER TIE DOWN BY ANCHOR TIE DOWN SYSTEMS, INC. WWW.TWISTERTIEDOWN.COM 3" MULCH, SLOPE FOR POSITIVE DRAINAGE FROM BASE OF PLANT - RUBBER SURFACE RE: 6/L3.0 - SCARIFY SIDES & BOTTOM OF PIT PREPARED SOIL MIX UNDISTURBED SUBGRADE

N.T.S.

TYP. TREE PLANTING **(a)** RUBBER SURFACE

TWISTER TO BE REMOVED

BY CONTRACTOR WITHIN 6-12 MONTHS

NO. DATE DESCRIPTION 04.03.2015 100% DD 50% CD 09.04.2015 10.31.2016 75% CD 03.15.2017 95% CD 06.14.2017 100% CD 11.03.2017 100% CD 12.18.2017 PERMIT SET 09.27.2018 | BID & CONSTRUCTION

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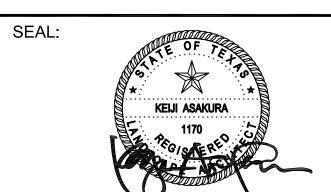
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**Parks Capital** Improvement Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME :

DOW SCHOOL PARK 1900 Kane Street Houston TX 77007 TIRZ #13



**GENERAL SERVICES** DEPARTMENT

REVIEWED:

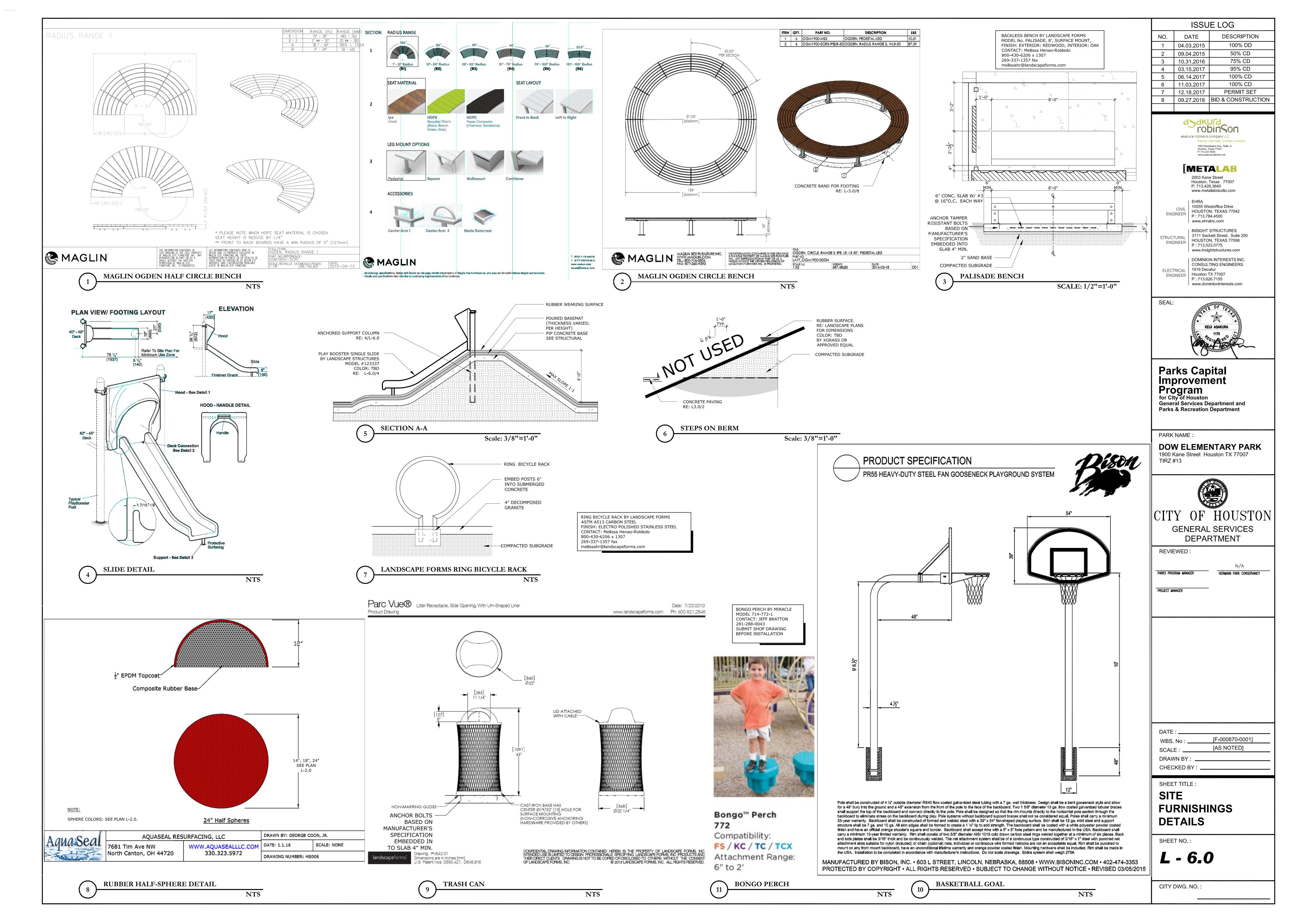
N/A HERMANN PARK CONSERVANCY

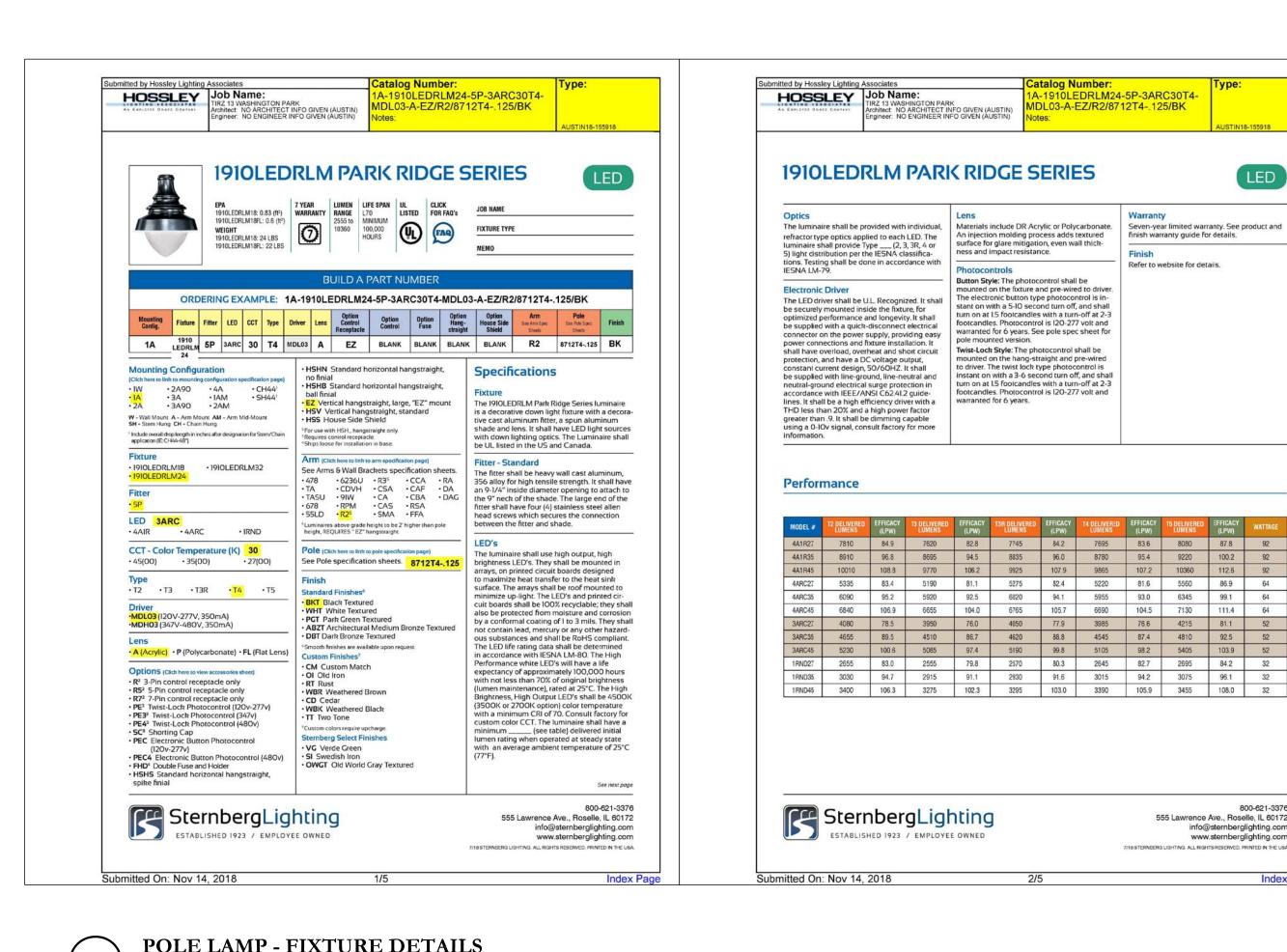
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SHEET TITLE:

LANDSCAPE **DETAILS** 

SHEET NO.:





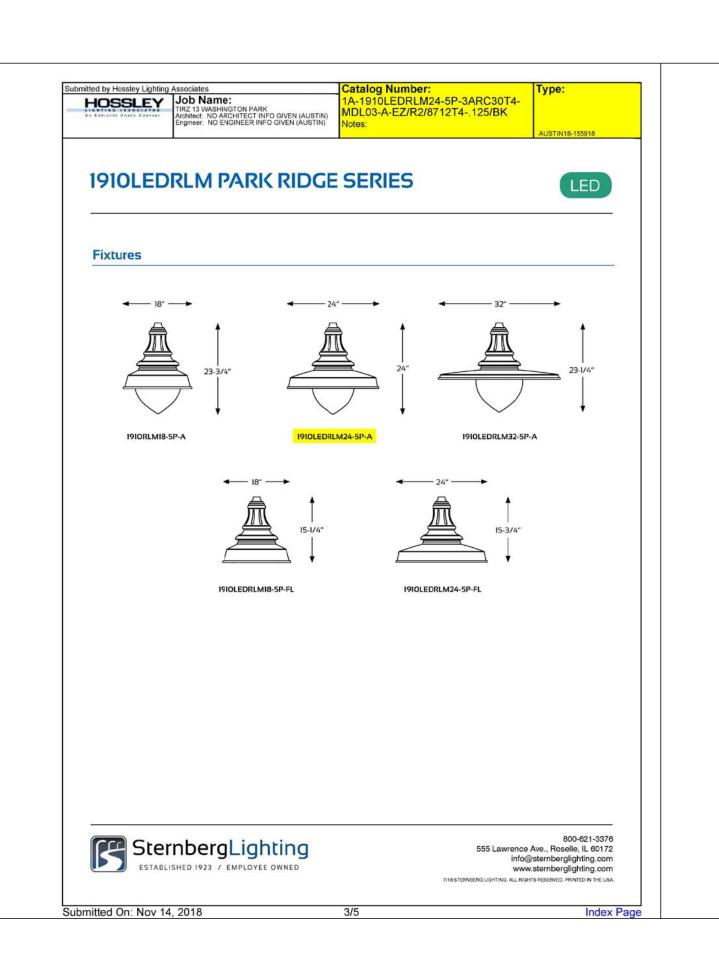
LIGHTING

ARC30T4-MDL03-A-EZ/

R2/8712T4-.125/BK

Ph: (512) 835-4971 x 18246

www.fsgi.com



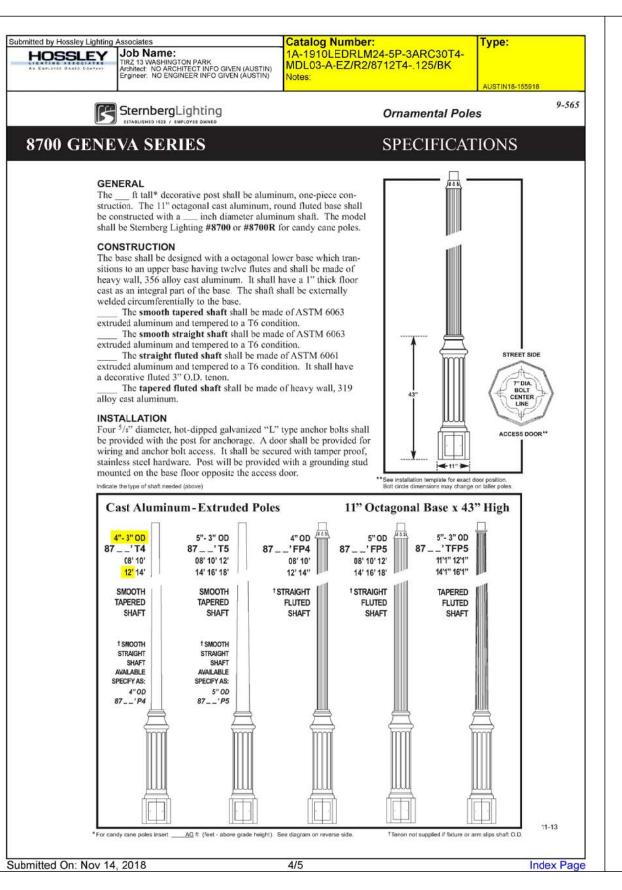
Refer to website for details.

555 Lawrence Ave., Roselle, IL 60172

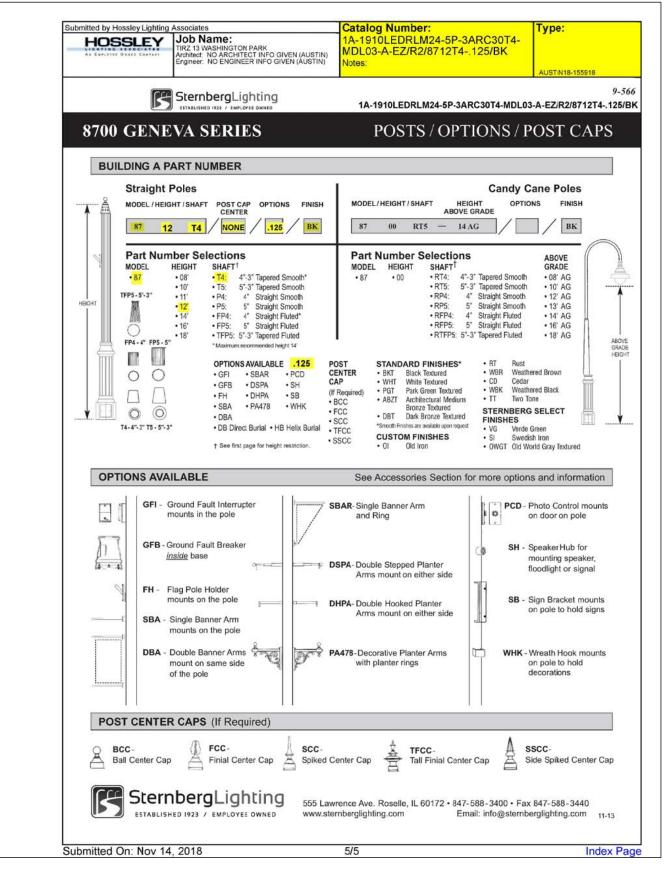
7/18 STERNBERG LIGHTING, ALL RIGHTS RESERVED, PRINTED IN THE USA.

info@sternberglighting.com

www.sternberglighting.com



TRIPLE-ARCH-HEMISPHERE



**DETAIL** 

(4) <sup>5</sup>/<sub>2</sub>" x 1 <sup>1</sup>/<sub>2</sub> BHCS w/Pin (With Gray Anti-Sieze) #127551-00

(6) 5" Clamps

5" CLAMP ATTACHMENT

NTS

1 1/2"/38 Below Seam

MOST DEPENDABLE FOUNTAINS INC. 5705 COMMANDER DR. P.O. BOX 587 ARLINGTON, TN 38002-0587

FAX: (901) 867-0159 www.mostdependable.com

ON OPPOSITE SIDE AS

SHOWN BELOW (TOP VIEW)

6

REVISION DATE 18/08/2011

www.CADdetails.com

	ISSUE LOG						
NO.	DATE	DESCRIPTION					
1	04.03.2015	100% DD					
2	09.04.2015	50% CD					
3	10.31.2016	75% CD					
4	03.15.2017	95% CD					
5	06.14.2017	100% CD					
6	11.03.2017	100% CD					
7	12.18.2017	PERMIT SET					
8	09.27.2018	BID & CONSTRUCTION					

asakura robinson asakura robinson company LLC Planning Urban Design Landscape Architecture 1902 Washington Ave., Suite. A Houston, Texas 77007 P: 713.337.5830 www.asakurarobinson.net

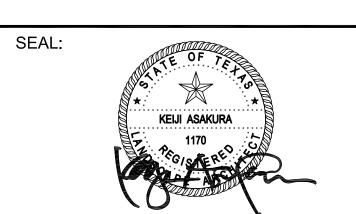
[METALAB

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**Parks Capital** Improvement Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME:

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13



**REVIEWED:** N/A PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

**DEPARTMENT** 

PROJECT MANAGER

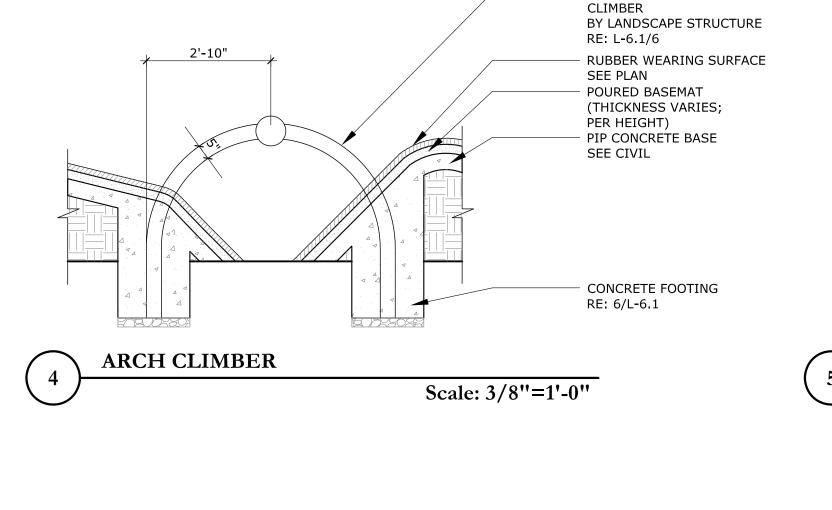
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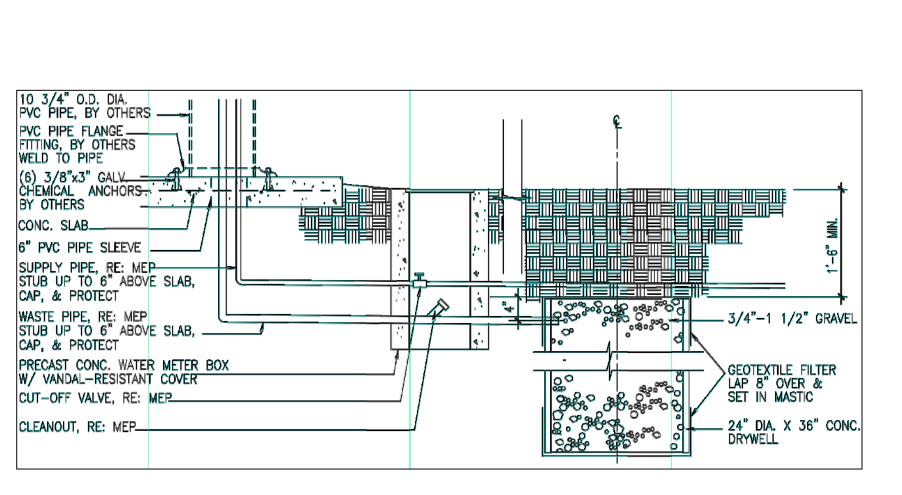
SHEET TITLE: LIGHTING AND **FURNISHING DETAILS** 

SHEET NO.: L - 6.1

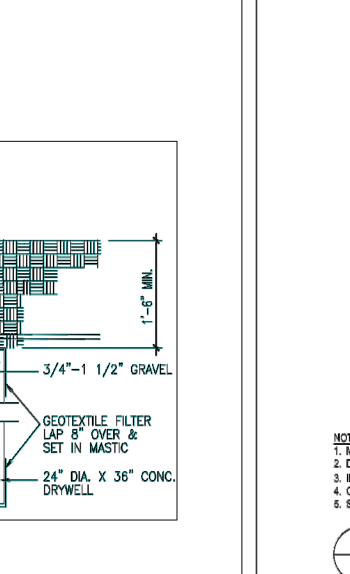
CITY DWG. NO.:

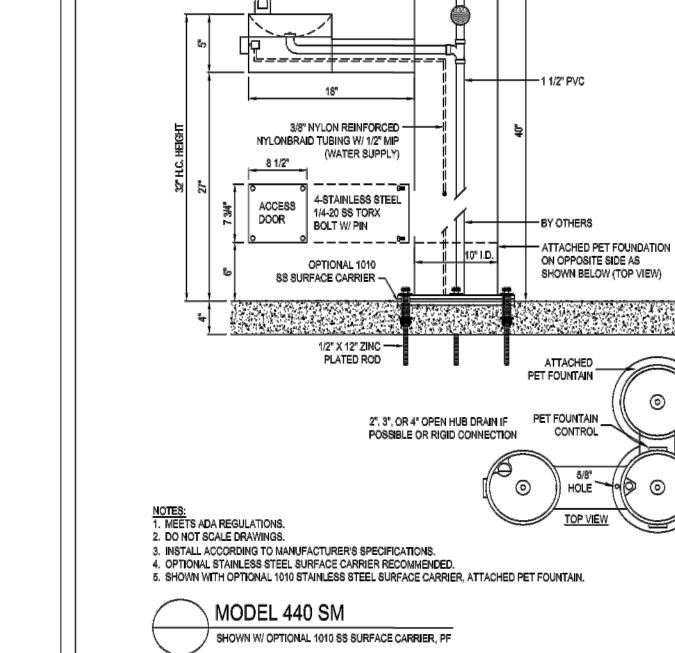
	$\overline{}$			NTS			
				FURNISHI	NG SCHEDULE		
	NAME	QTY	MANUFACTURER	MODEL	COLOR	FINISH	CONTACT
SIT	E FURNISHING						
1	HALF CIRCLE BENCH	1	MAGLIN	OGDEN RANGE-1 OGM1900-SCR1-LR	NA	IPE WOOD	WILL SCHMIDT T: 855.482.7311 wschmidt@maglin.com
2	CIRCLE BENCH	1	MAGLIN	OGM1900-00034	NA	IPE WOOD	WILL SCHMIDT T: 855.482.7311 wschmidt@maglin.com
3	BENCH	1	LANDSCAPE FORMS	PALISADE, 8' LONG BACKLESS, SURFACE MOUNT	NA	EXTERIOR: REDWOOD, INTERIOR: OAK	Melissa Henao-Robledo 800-430-6206 x 1307 269-337-1357 fax melissahr@landscapeforms.com
4	BICYCLE RACK	5	LANDSCAPE FORMS	RING, ASTM A513 CARBON STEEL	NA	ELECTRO POLISHED STAINLESS STEEL	Melissa Henao-Robledo 800-430-6206 x 1307 269-337-1357 fax melissahr@landscapeforms.com
5	TRASH CAN	3	LANDSCAPE FORMS	PARC VUE, SIDE OPENING, WITH UM-SHAPED LINER	TOP: FOG LINER: BLACK METAL: SILVER	NA	Melissa Henao-Robledo 800-430-6206 x 1307 269-337-1357 fax melissahr@landscapeforms.com
6	BASKETBALL GOAL	1	BISON	4-1/2" HEAVY DUTY STEEL FAN GOOSENECK SYSTEMS	NA	NA	P: 402-474-3353 www.BISONINC.com
7	DRINKING FOUNTAIN	1	MDF	440SM	GREEN	NA	MOST DEPENDABLE FOUNTAIN, INC. P: 800-552-6331 F: 901-867-4008 www.mostdependable.com/
PL/	AYGROUND EQL	JIPMENT					
1	SLIDE	1	LANDSCAPE STRUCTURES	MODEL #123337 48" HIGH	TANGERINE	POLYETHYLENE	LONE STAR RECREATION, INC. P: 281-970-9010 info@Inestarrecreation.com
2	ARCH CLIMBER	3	LANDSCAPE STRUCTURES	CUSTOM	ARCH: COOL SILVER MATTE CLAMP: LEAF	NA	LONE STAR RECREATION, INC. P: 281-970-9010 info@Inestarrecreation.com
3	BONGO PERCH	6	MIRACLE	MODEL 714-772-1	TROPICAL YELLOW	NA	JEFF BRATTON P: 281-288-1412 F: 281-288-0043 jeff@mayrecreation.com www.mayrecreation.com
.IG	HTING						
1	POLE LIGHT	7	STERNBERG	FIXTURE: 1A-1910LEDRLM24-5P-3	BLACK	NA	Facility Solutions Group, John Campsmith





DRINKING FOUNTAIN DETAILS NTS





PROTECTED BY COPYRIGHT - 01/02/06

DIRECT BURY

ARCH CLIMBER DETAIL

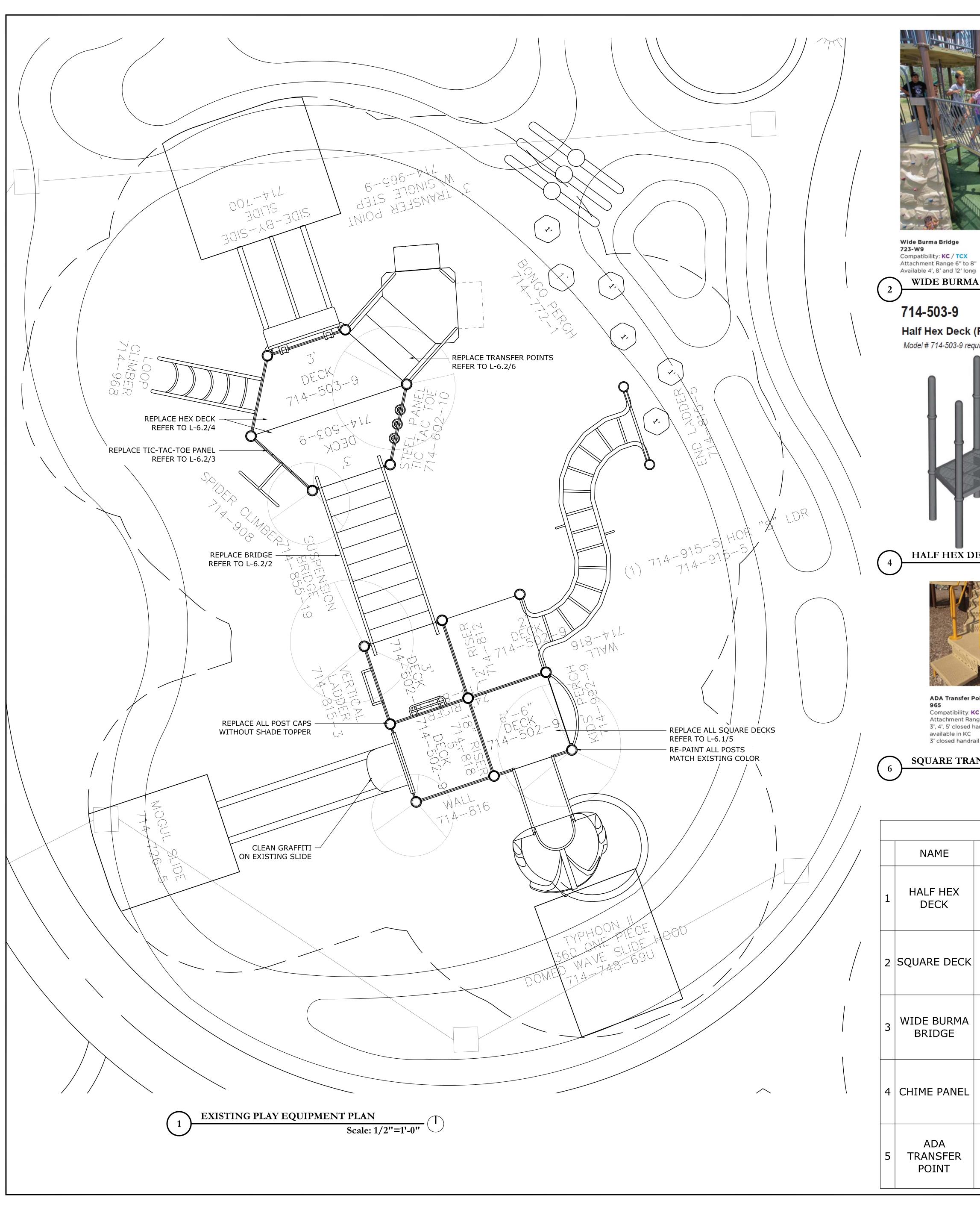
MOST DEPENDABLE FOUNTAINS, IN

Protective 4

Surfacing

Concrete ~

Crushed --Rock





Compatibility: KC / TCX Attachment Range 6" to 8"

WIDE BURMA BRIDGE

Half Hex Deck (Full) Model # 714-503-9 requires four (4) Posts.



HALF HEX DECK



ADA Transfer Point 965 Compatibility: KC / TC / TCX Attachment Range: 3', 4', 5' 3', 4', 5' closed handrail models available in KC 3' closed handrail model available in TC

SQUARE TRANSFER POINTS NTS



**Chime Panel** 

Compatibility: KC / TC / TCX / TCT For above or below deck

PANEL

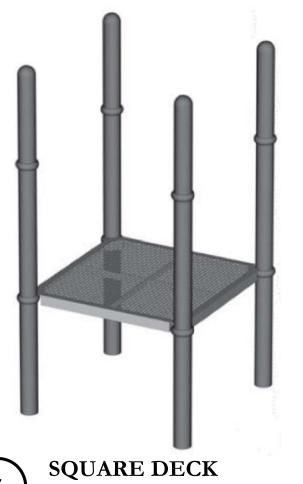
NTS

NTS

714-502-9

**Square Deck** 

Model # 714-502-9 requires four (4) Posts.



NTS PARK NAME :

NTS

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13

Improvement
Program
for City of Houston
General Services Department and
Parks & Recreation Department

ISSUE LOG

DATE

04.03.2015

09.04.2015

10.31.2016

03.15.2017

06.14.2017 11.03.2017

12.18.2017

NO.

DESCRIPTION

100% DD

50% CD 75% CD

95% CD

100% CD

100% CD PERMIT SET

09.27.2018 BID & CONSTRUCTION

Planning Urban Design Landscape Architecture

1902 Washington Ave., Suite. A Houston, Texas 77007 P: 713.337.5830 www.asakurarobinson.net

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DOMINION INTERESTS INC.
CONSULTING ENGINEERS
1919 Decatur

ENGINEER Houston TX 77007
P: 713.626.7155

**Parks Capital** 

asakura robinson company LLC



DEPARTMENT REVIEWED:

[F-000870-0001]

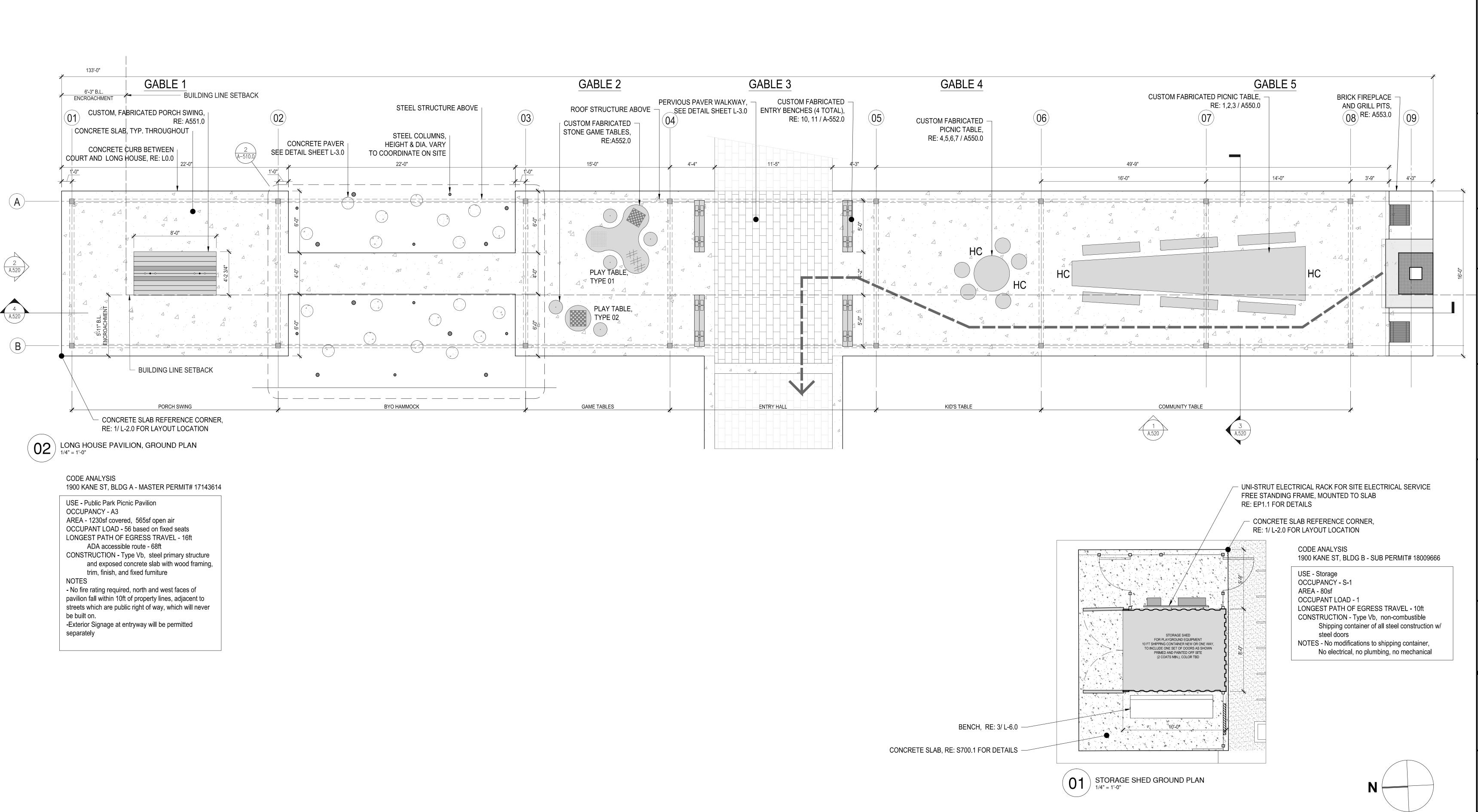
[AS NOTED]

eation.com	
TTON	
8-1412	
8-0043	DATE :
eation.com	WBS. No :[F-000870-0
eation.com	SCALE : [AS NOTED
TTON	DRAWN BY :
8-1412	CHECKED BY :
8-0043	
eation.com	SHEET TITLE :
eation.com	PLAYGROUND
TTON	DETAILS
8-1412	
8-0043	

www.mayrecreation.com

SHEET NO.: L - 6.2

	PLAY EQUIPMENT REPLACEMENT SCHEDULE					
	NAME	QTY	MANUFACTURER	MODEL	COLOR	CONTACT
1	HALF HEX DECK	2	MIRACLE	714-503-9	MATCH EXISTING	JEFF BRATTON P: 281-288-1412 F: 281-288-0043 jeff@mayrecreation.com www.mayrecreation.com
2	SQUARE DECK	4	MIRACLE	714-502-9	MATCH EXISTING	JEFF BRATTON P: 281-288-1412 F: 281-288-0043 jeff@mayrecreation.com www.mayrecreation.com
3	WIDE BURMA BRIDGE	1	MIRACLE	732-W9	MATCH DECK COLOR	JEFF BRATTON P: 281-288-1412 F: 281-288-0043 jeff@mayrecreation.com www.mayrecreation.com
4	CHIME PANEL	1	MIRACLE	975-3	GREEN	JEFF BRATTON P: 281-288-1412 F: 281-288-0043 jeff@mayrecreation.com www.mayrecreation.com
5	ADA TRANSFER POINT	1	MIRACLE	714-965-9, 3'	MATCH EXISTING	JEFF BRATTON P: 281-288-1412 F: 281-288-0043 jeff@mayrecreation.com



ISSUE LOG					
NO.	DATE	DESCRIPTION			
2	09.04.2015	50% CD			
3	10.31.2016	75% CD			
4	03.15.2017	95% CD			
5	06.14.2017	100% CD			
6	11.03.2017	100% CD			
7	12.18.2017	ISSUED FOR PERMIT			
<u> 1</u>	01.29.2018	COMMENT RESPONSE			
<u>/2</u>	04.02.2018	COMMENT RESPONSE			
<u>/</u> 3	06.08.2018	COMMENT RESPONSE			
8	11.02.2018	ISSUED FOR BID			
·					



# [METALAB 2003 Kane Street

2003 Kane Street Houston, Texas 77007 P: 713.426.3640 www.metalabstudio.com

CIVIL ENGINEER HOUSTON, TEXAS 77042 P: 713.784.4500 www.ehrainc.com

STRUCTURAL ENGINEER INSIGHT STRUCTURES
5331 Inker Street, Suite B
HOUSTON, TEXAS 77007
P: 713.523.0775
www.insightstructures.com

ELECTRICAL ENGINEER Houston TX 77007 P: 713.626.7155 www.dominioninterests.com

Parks Capital Improvement

General Services Department and Parks & Recreation Department

Program for City of Houston

PARK NAME :

DOW ELEMENTARY PARK
1900 Kane Street Houston TX 77007
TIRZ #13

REVIEWED :

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

PROJECT MANAGER



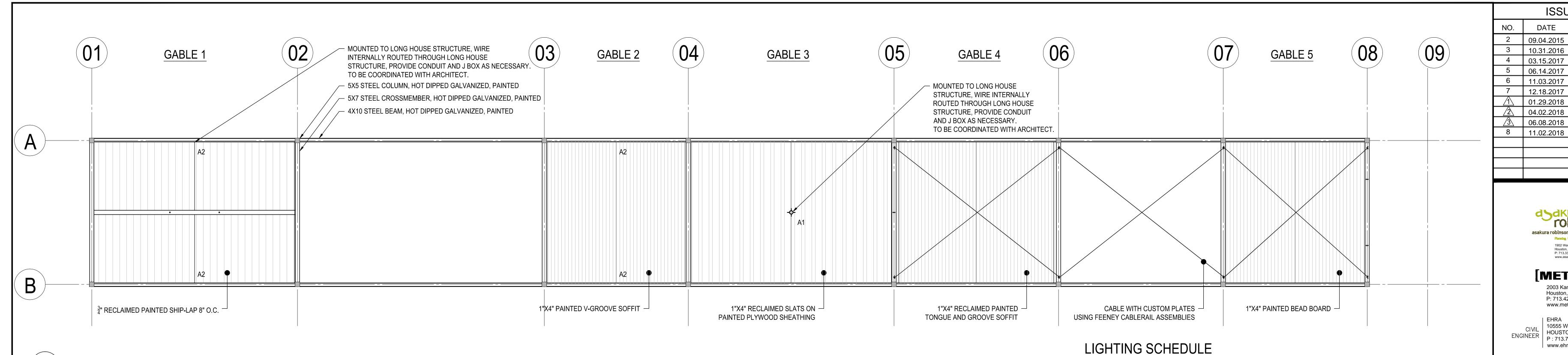
SHEET TITLE :

CHECKED BY:

LONG HOUSE GROUND PLAN

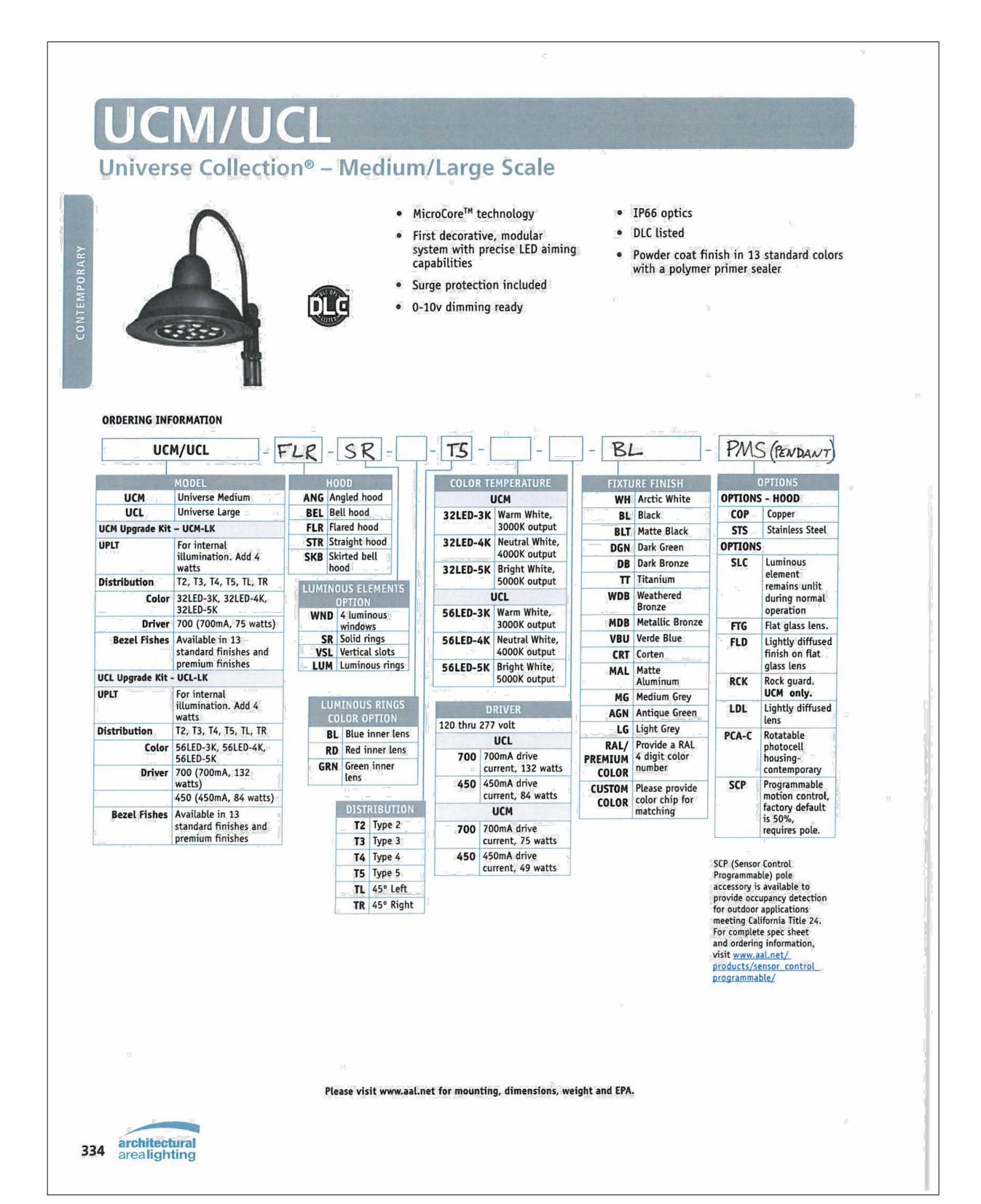
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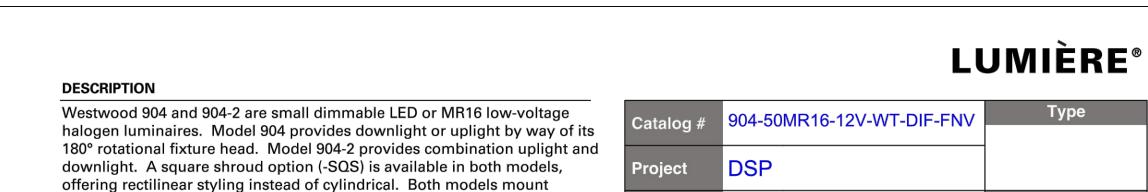
A - 510.0



(01) REFLECTED CEILING PLAN

(A1





A1 1 PENDANT

A2 4 SCONCE

A ... Material Housing and hood are precision-machined from corrosion-resistant 6061-T6 aluminum billet, brass, bronze or stainless steel. Mounting canopy is constructed from corrosion-resistant silicone aluminum, brass, bronze or stainless steel.

to create multiple lighting effects.

SPECIFICATION FEATURES

B ... Finish Painted Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available. Brass, Bronze or Stainless Steel Fixtures constructed from brass, bronze or stainless steel are left unpainted to reveal the natural beauty of the material. Brass and bronze will patina naturally over time.

C ... Hood Hood is removable for easy relamping and accepts up to three internal accessories at once (lenses, louvers, filters) to achieve multiple lighting effects. Weep holes prevent water collection on the uplight position.

ø4-1/4"

D ... Gasket Housing and hood are sealed with a high temperature silicone o-ring

gasket to prevent water intrusion. E ... Lens Tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock.

directly to any wall surface or over a standard 4-inch J-box and require a

louvers, and color or dichroic filters can be combined - up to three at once -

F ... Mounting Both models mount directly to wall surface or over a standard 4" J-box and require remote 12V step-down transformer (not included). Model 904 provides downlight or uplight. Model 904-2 provides non-adjustable uplight and downlight. Lumière's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead

G ... Hardware Stainless steel hardware is standard to provide maximum corrosion-resistance.

H ... Socket Ceramic socket with 250° C Teflon® coated lead wires and GU5.3 bi-pin base.

ø4-1/4" [108mm] [108mm] [219mm] \_\_\_\_ [143mm]

Specifications and Dimensions subject to change without notice.

I ... Electrical

Remote 12V transformer required (not included). NOTE: initial power draw on LED equipped fixtures is 15 watts. When sizing transformer use 15 watts per LED fixture. Nominal power draw after start up is 10 or 6 watts accordingly. Also, LEDs are more voltage sensative than standard halogen MR16 lamps. The LED module is designed to operate between 10 and 13 volts. Any less or more voltage can cause premature

J ... Lamp

Halogen lamp not included. Available from Lumiere as an accessory - see reverse side for details and catalog logic. LED modules are included and are available in four color temperatures (2700,3000,4000, and 5700) and three distributions (spot, narrow, and flood). Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog

K ... Labels & Approvals UL and cUL listed, standard wet label. IP65 rated. Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

L ... Warranty Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.

Date



WESTWOOD

904 904-2 10W LED **6W LED** 

50W (max.) MR16 Low Voltage Wall

07/02/2012 11:36:14 AM

IP65



**ISSUE LOG** 

asakura robinson

Planning Urban Design Landscape Architecture

1902 Washington Ave., Suite. A Houston, Texas 77007 P: 713.337.5830

asakura robinson company LLC

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ENGINEER

ELECTRICAL | 1919 Decatur ENGINEER | Houston TX 77007

**Parks Capital** 

Improvement

**General Services Department and** 

**DOW ELEMENTARY PARK** 

N/A

HERMANN PARK CONSERVANCY

1900 Kane Street Houston TX 77007

Parks & Recreation Department

Program

for City of Houston

PARK NAME :

TIRZ #13

**REVIEWED:** 

PARKS PROGRAM MANAGER

PROJECT MANAGER

www.ehrainc.com

P: 713.523.0775

P:713.626.7155

DATE

09.04.2015

10.31.2016

03.15.2017

06.14.2017

11.03.2017

01.29.2018

04.02.2018

06.08.2018

12.18.2017

DESCRIPTION

50% CD

75% CD

95% CD

100% CD

100% CD

**ISSUED FOR PERMIT** 

OMMENT RESPONSE

OMMENT RESPONSE

OMMENT RESPONSE

**ISSUED FOR BID** 

[L-NNNN-NN-3]
1/4"=1'-0"

SHEET TITLE:

**LONG HOUSE** REFLECTED CEILING **PLAN AND LIGHTING** 

SHEET NO.:

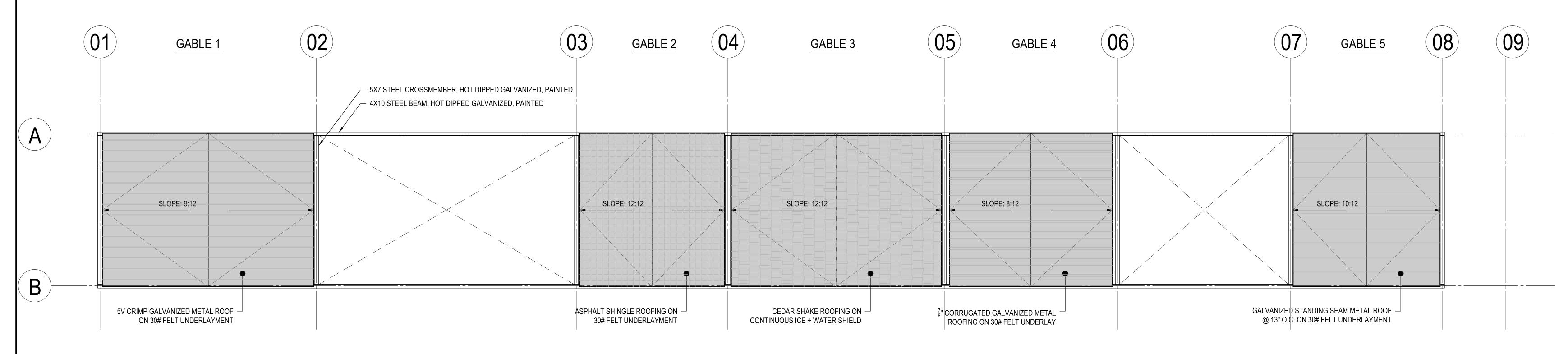
A - 511.0

CITY DWG. NO.:

(A2)

COOPER Lighting

www.cooperlighting.com



	ISSUE LOG				
NO.	DATE	DESCRIPTION			
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3	10.31.2016	75% CD			
4	03.15.2017	95% CD			
5	06.14.2017	100% CD			
6	11.03.2017	100% CD			
7	12.18.2017	ISSUED FOR PERMIT			
1	01.29.2018	COMMENT RESPONSE			
2	04.02.2018	COMMENT RESPONSE			
<u>3</u>	06.08.2018	COMMENT RESPONSE			
8	11.02.2018	ISSUED FOR BID			



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Parks Capital
Improvement
Program
for City of Houston
General Services Department and
Parks & Recreation Department

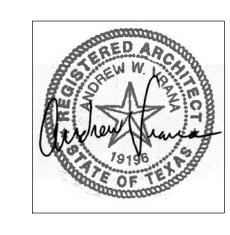
PARK NAME :

DOW ELEMENTARY PARK
1900 Kane Street Houston TX 77007
TIRZ #13

REVIEWED :

PROGRAM MANAGER HERMANN PARK CONSERVANCY

PROJECT MANAGER



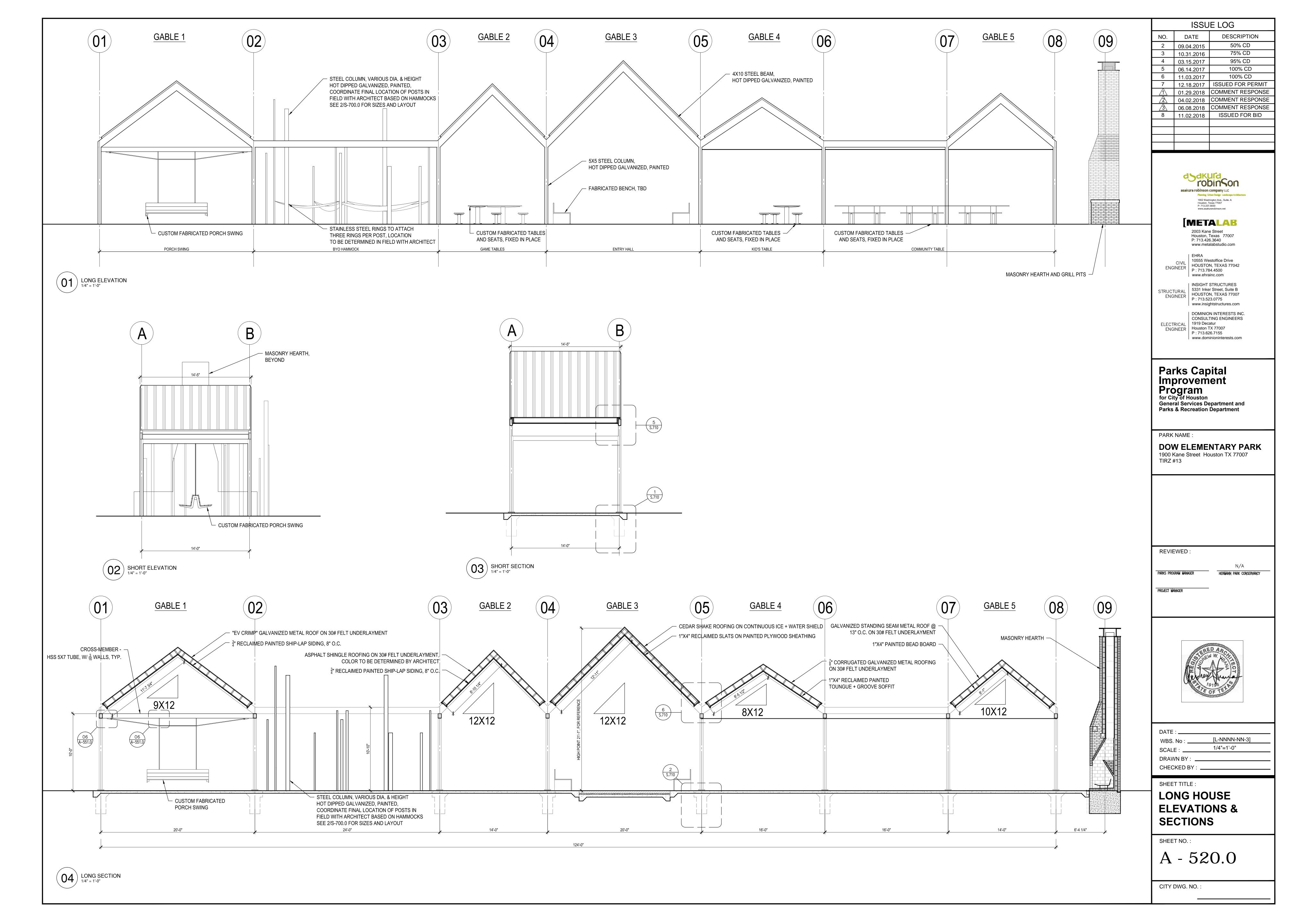
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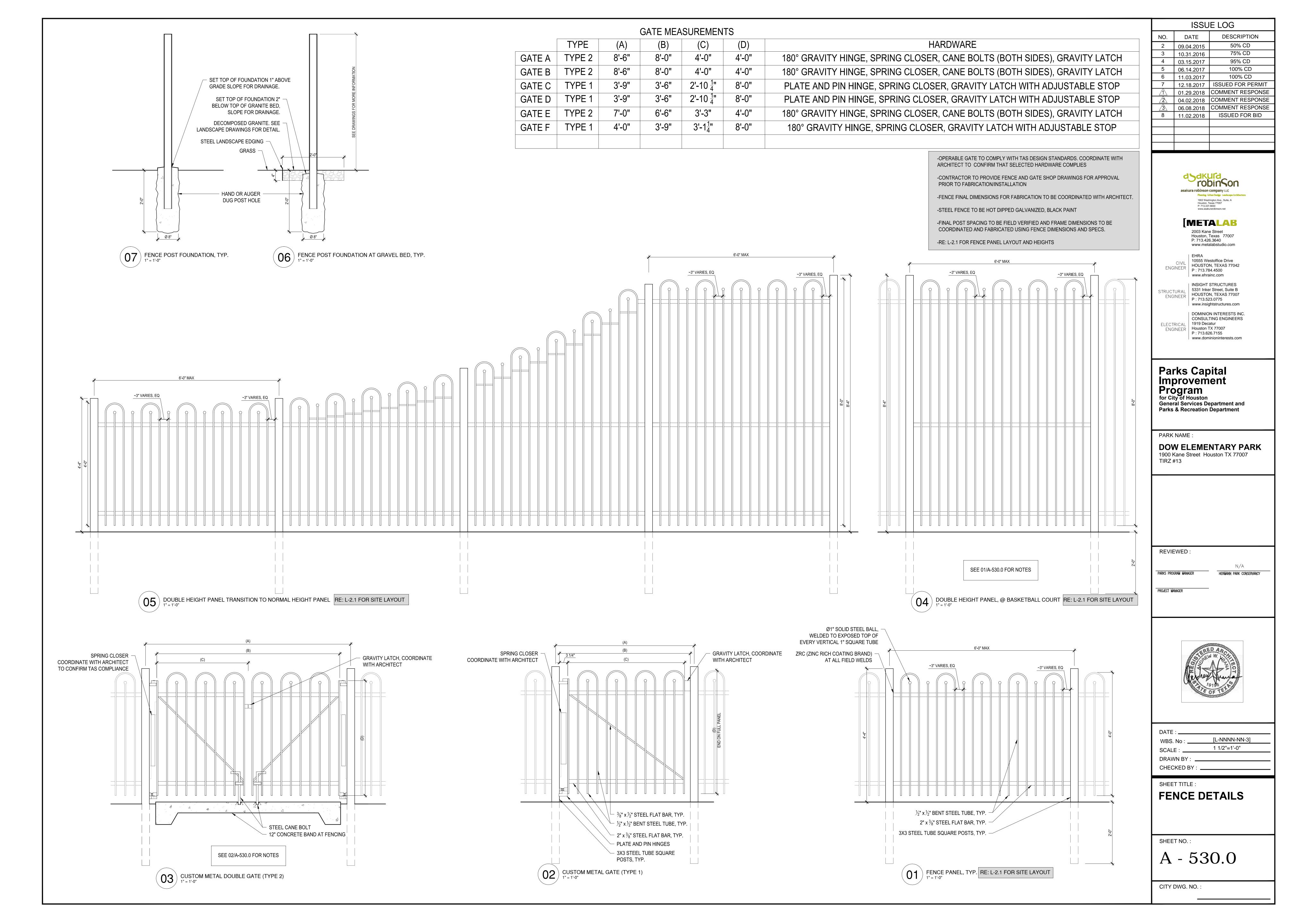
LONG HOUSE ROOF PLAN

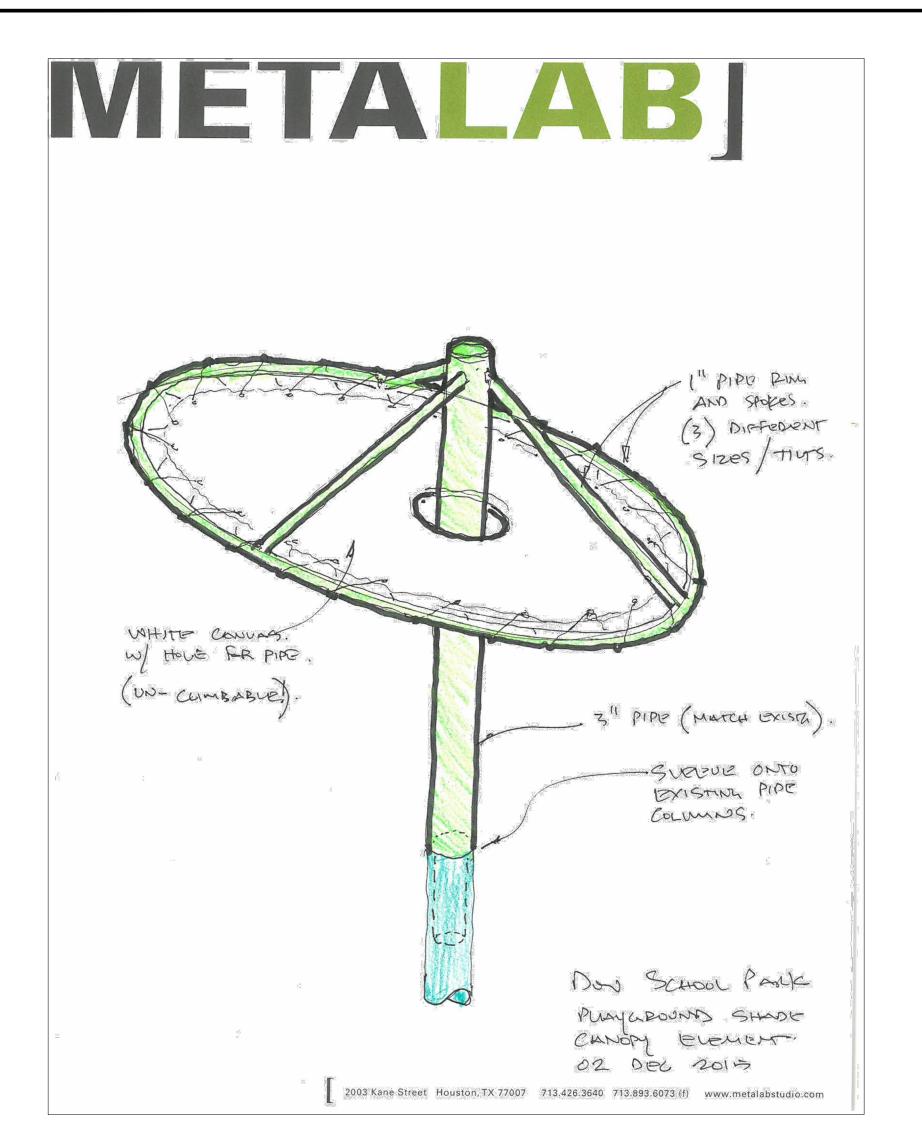
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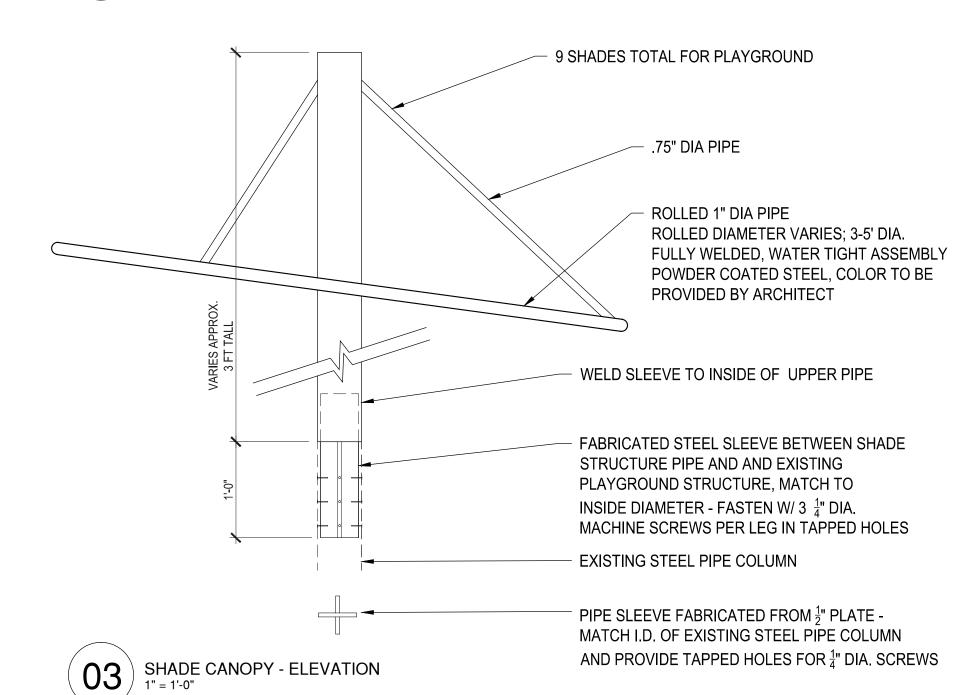
(01)	ROOF PLAI 1/4" = 1'-0"







(04) SHADE CANOPY - SKETCH



ROLLED 1" DIA PIPE,
ROLLED DIAMETER VARIES
3-5' DIA.

75" DIA PIPE

5" STEEL PIPE, TO MATCH EXISTING
PLAYGROUND STRUCTURE

C USTOM CANVAS SHADE SURFACE,
UV PROTECTED WITH CENTER HOLE
FOR COLUMN PASS THROUGH

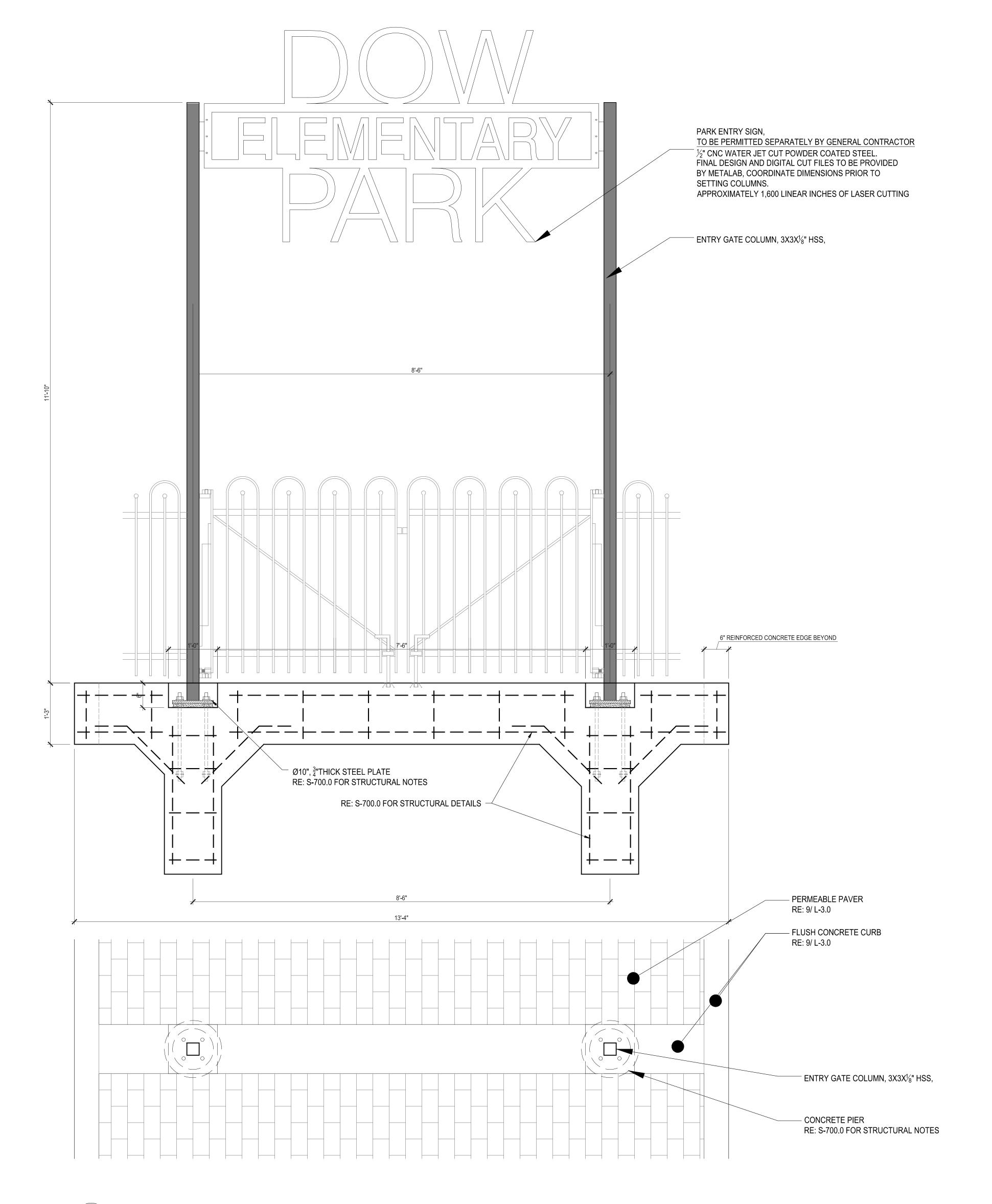
NYLON 550 PARACORD LACED TO RING

AS SHOWN UV PROTECTED WITH BRASS GROMMETS AT 8" O.C. MIN.

SHADE CANOPY - PLAN 1" = 1'-0"

-FENCE FINAL DIMENSIONS FOR FABRICATION TO BE COORDINATED WITH ARCHITECT.

-FINAL POST SPACING TO BE FIELD VERIFIED AND FRAME DIMENSIONS TO BE COORDINATED AND FABRICATED USING FENCE DIMENSIONS AND SPECS.



DESCRIPTION NO. DATE 50% CD 2 09.04.2015 75% CD 3 10.31.2016 4 03.15.2017 95% CD 100% CD 5 06.14.2017 6 11.03.2017 100% CD **ISSUED FOR PERMIT** 12.18.2017 OMMENT RESPONSE 01.29.2018 04.02.2018 OMMENT RESPONSE 06.08.2018 COMMENT RESPONSE 8 11.02.2018 ISSUED FOR BID

**ISSUE LOG** 



# [METALAB 2003 Kane Street

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ELECTRICAL ENGINEER DOMINION INTERESTS INC.
CONSULTING ENGINEERS
1919 Decatur
Houston TX 77007
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www.dominioninterests.com

# Parks Capital Improvement Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME :

# DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13

REVIEWED :

ARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

PROJECT MANAGER



DATE :	
WBS. No :	[L-NNNN-NN-3]
SCALE :	1 1/2"=1'-0"
DRAWN BY :	
CHECKED BY ·	

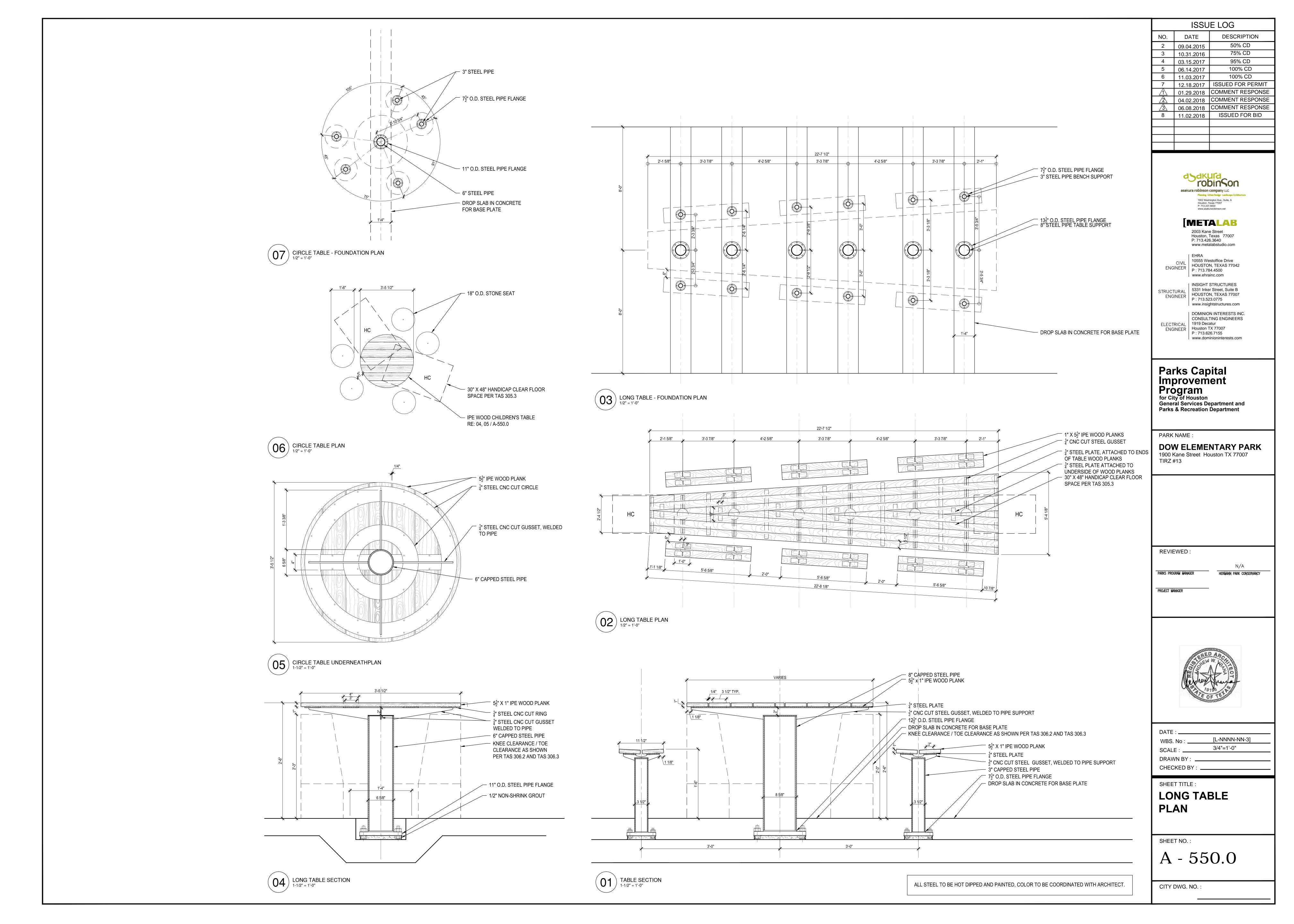
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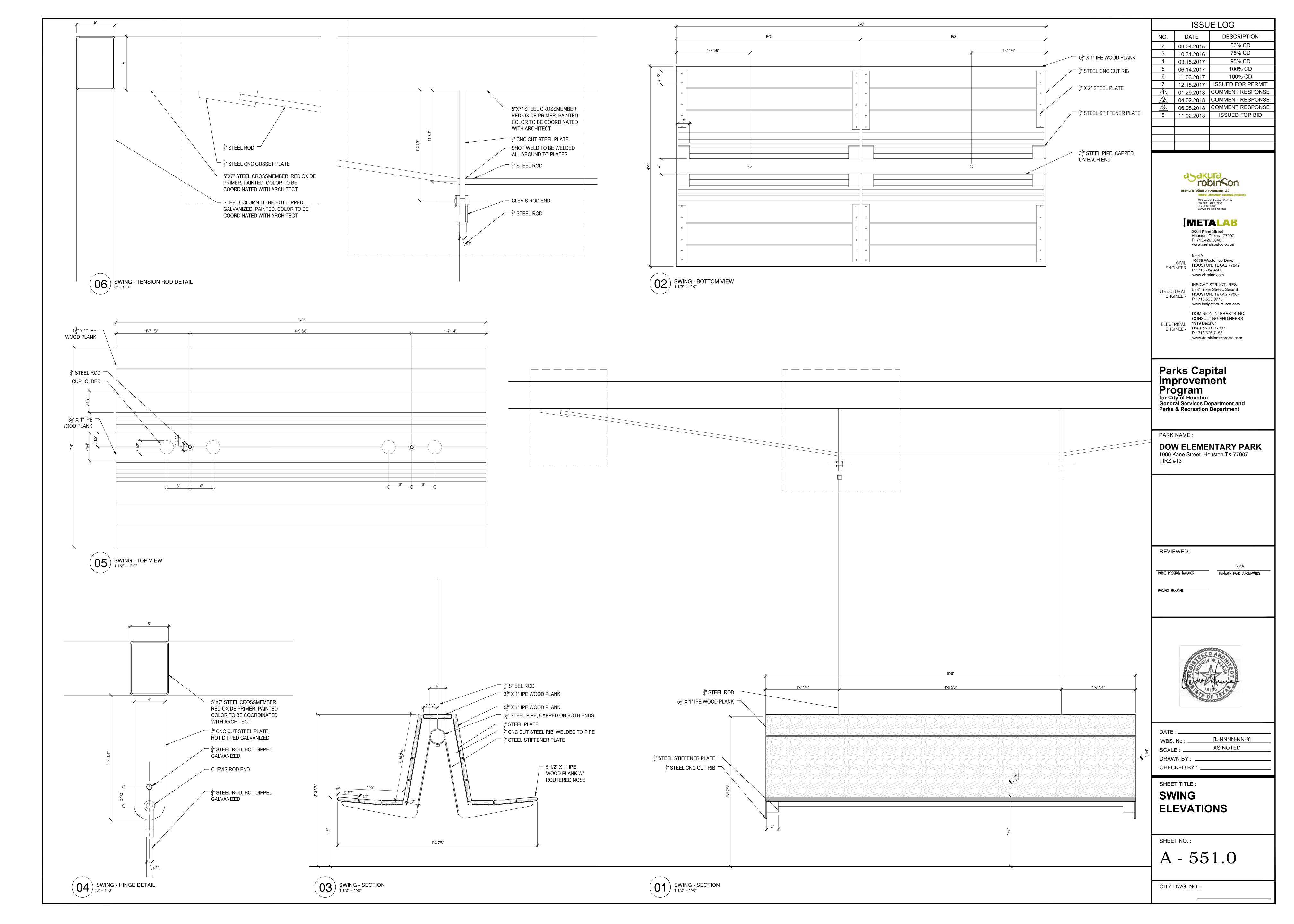
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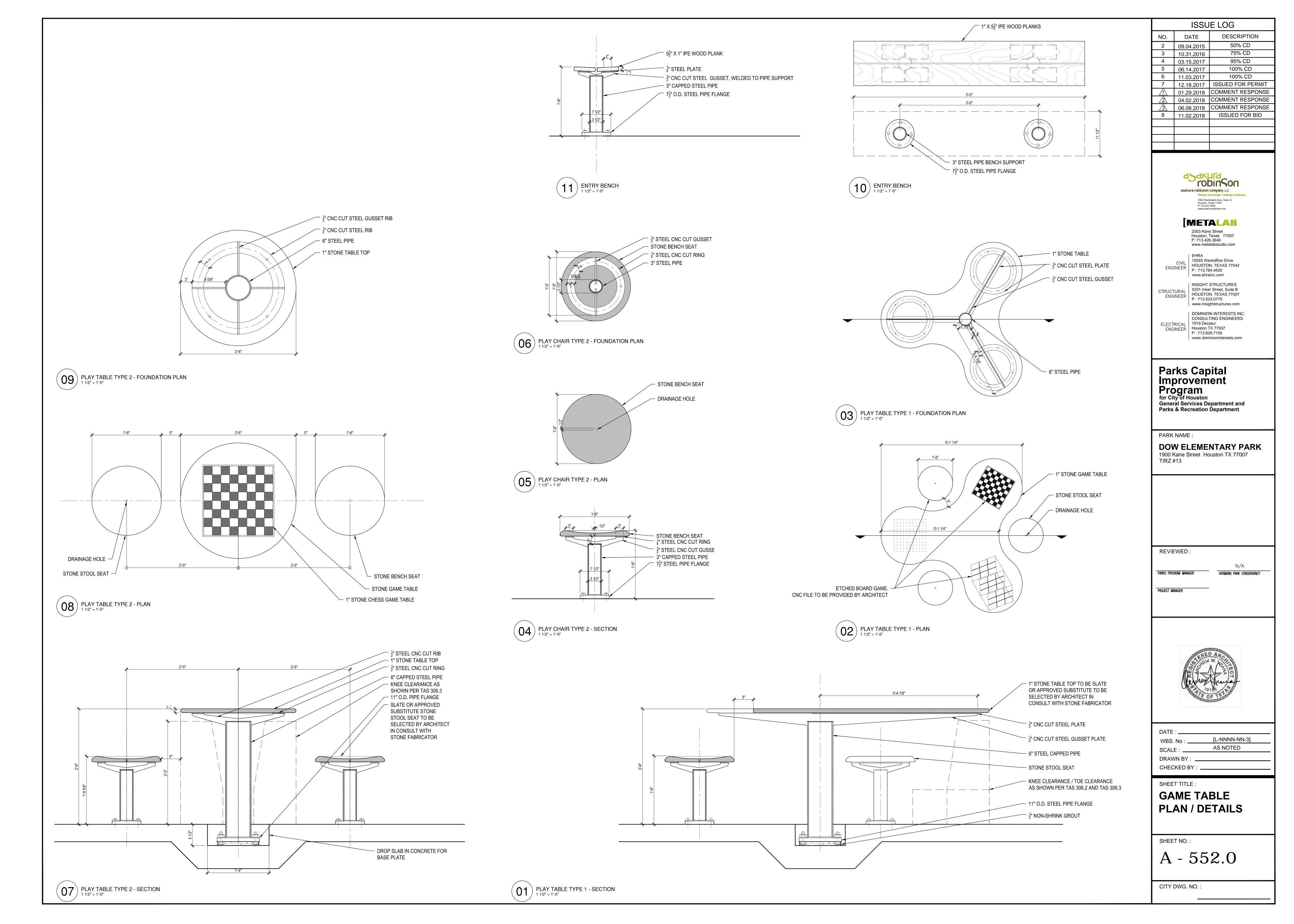
A - 530.1

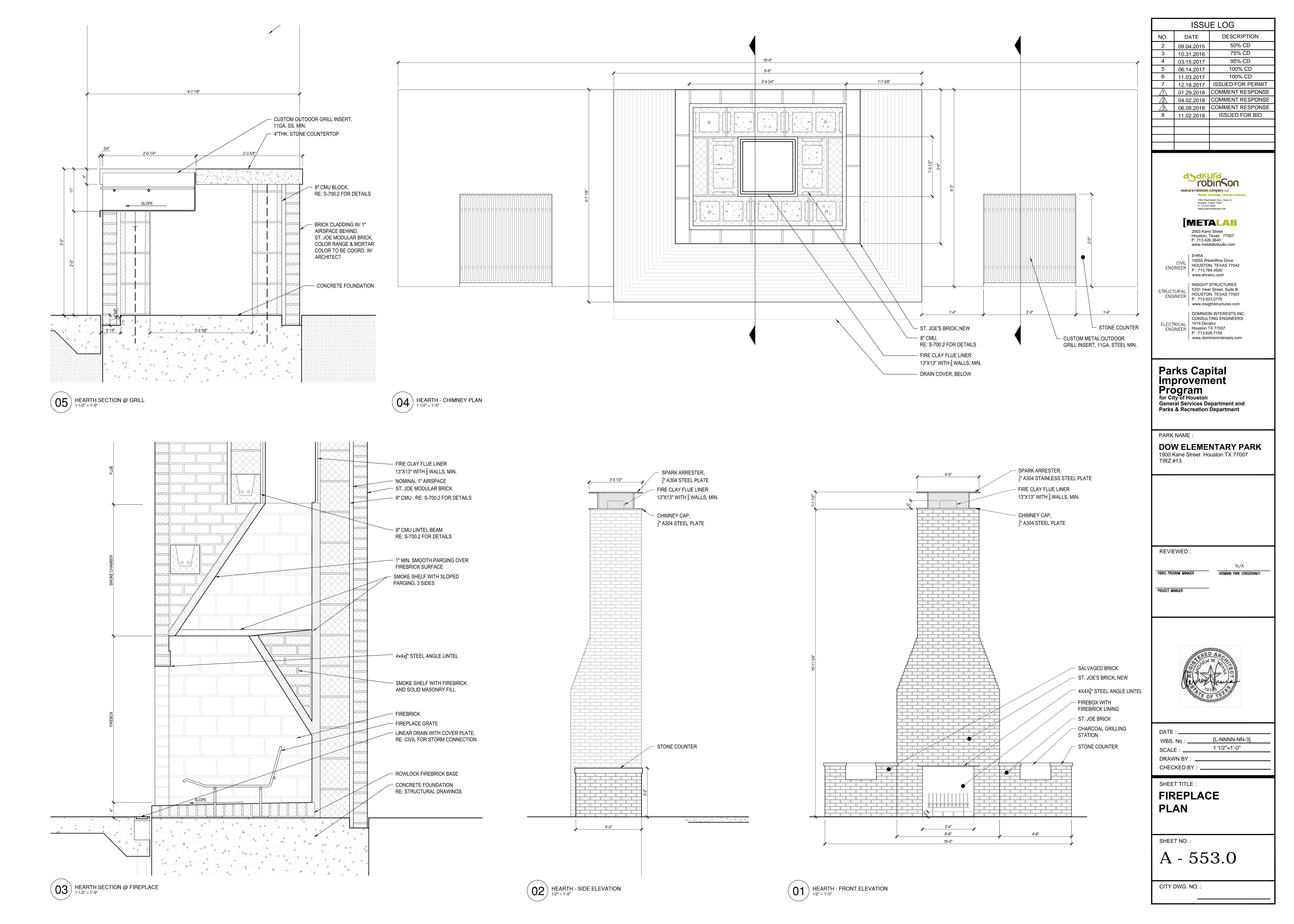
CITY DWG. NO. :

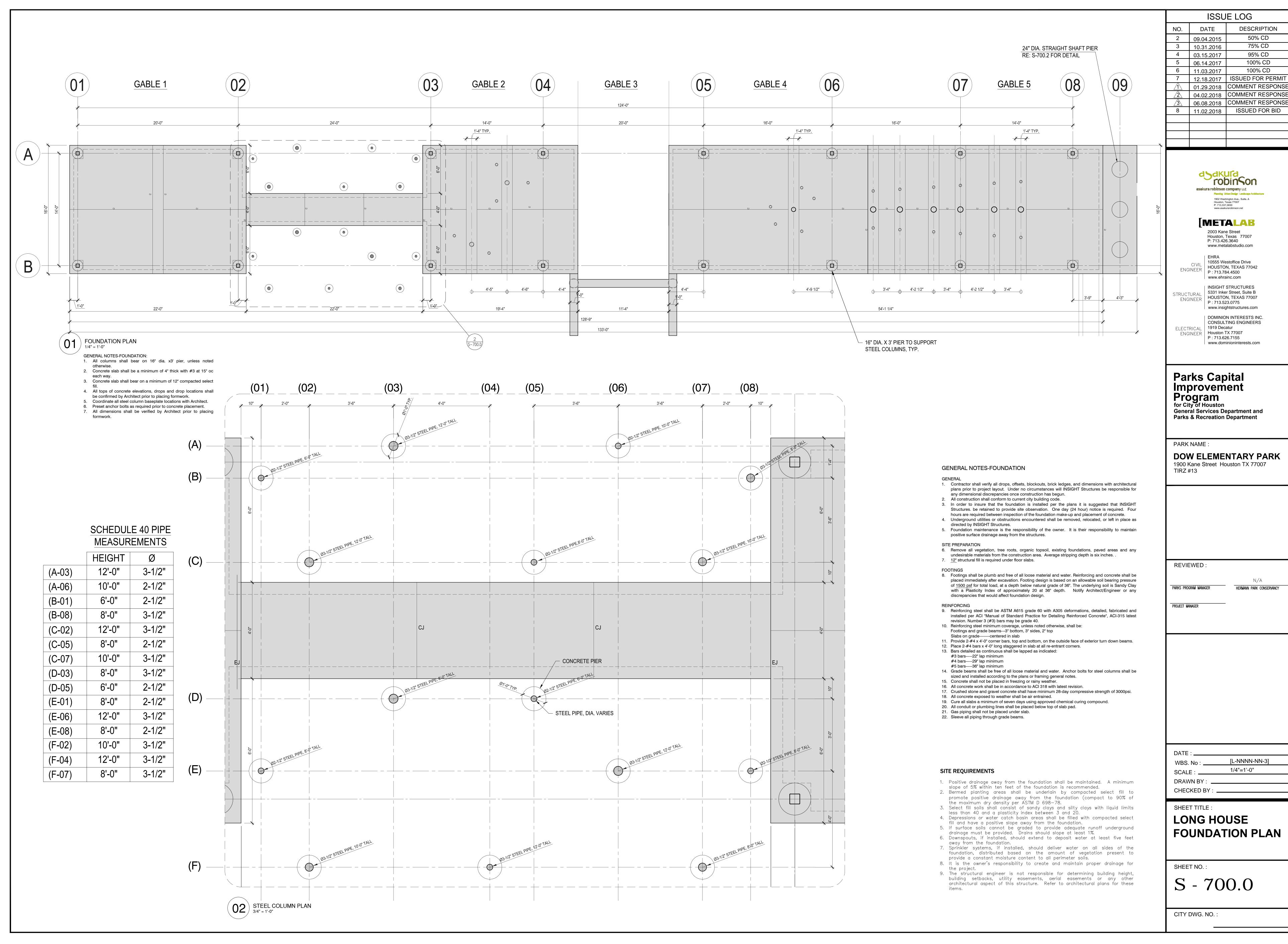
01 CUSTOM METAL ENTRY GATE, W/ SIGNAGE



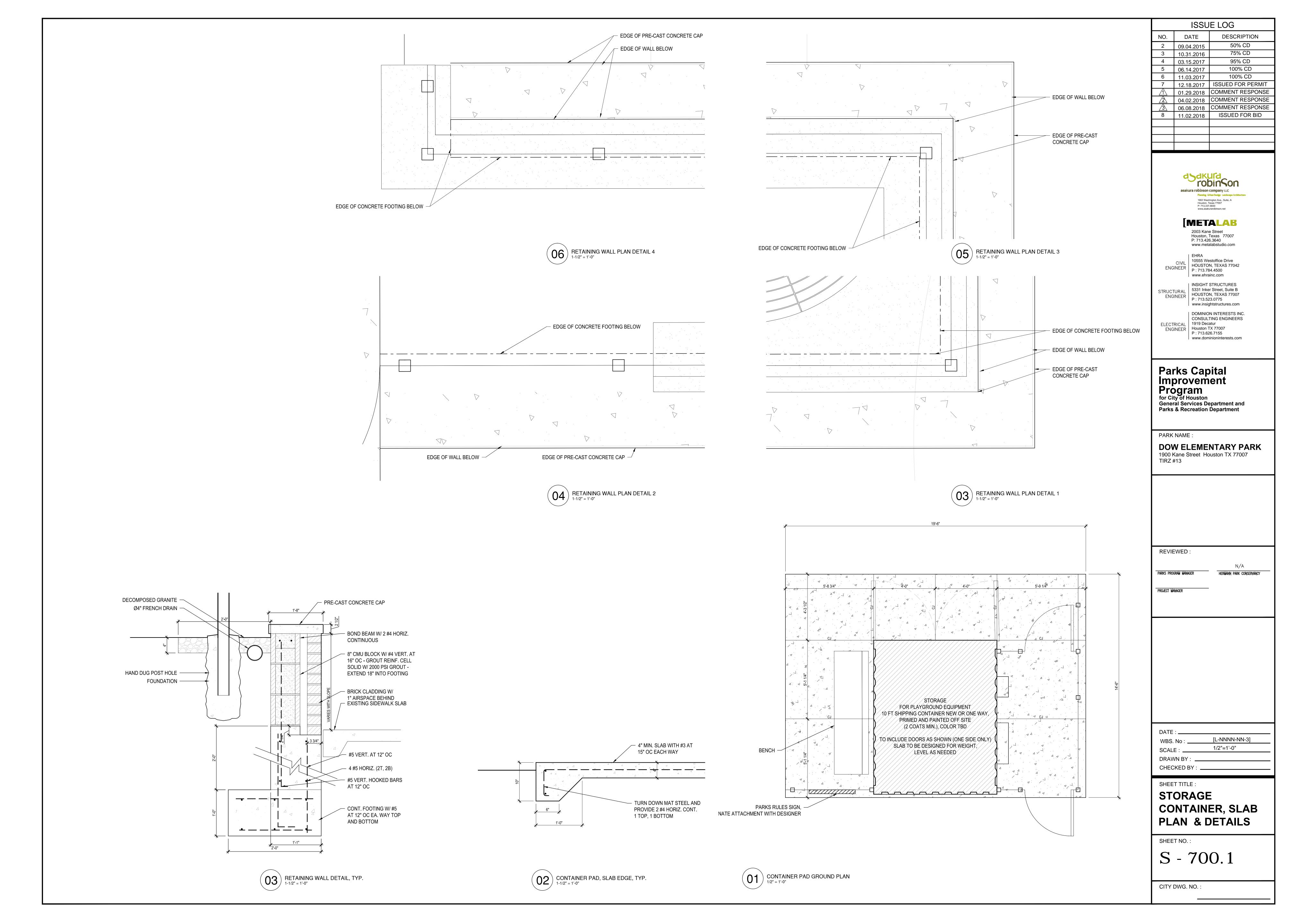








ISSUED FOR PERMIT



### GENERAL NOTES-MASONRY CONSTRUCTION

- 1. Masonry construction shall conform to current building code (ACI 530.1/ASCE 6/TMS 406), current edition.

  2. Hollow concrete masonry shall conform to ASTM C90, 125 per density with a minimum 1900 per compressive strength on the net area of the block.

  3. Mortar shall conform to ASTM C270, type S with a minimum compressive strength of 1800 per.

  4. Grout shall conform to ASTM C476 with a minimum compressive strength of 2000 per at 28 days.

  5. Reinforcing steel shall conform to A615 Grade 60 and shall be lapped 45 bar diameters if tied with wire or 71 bar diameters if otherwise. Vertical reinforcement shall be held in position at intervals not exceeding 192 bar diameters.

  6. Provide horizontal joint reinforcement (DUR-O-WAL standard LADUR galvanized or equal) at 16" on center. DUR-O-WAL shall be lapped 12" minimum.

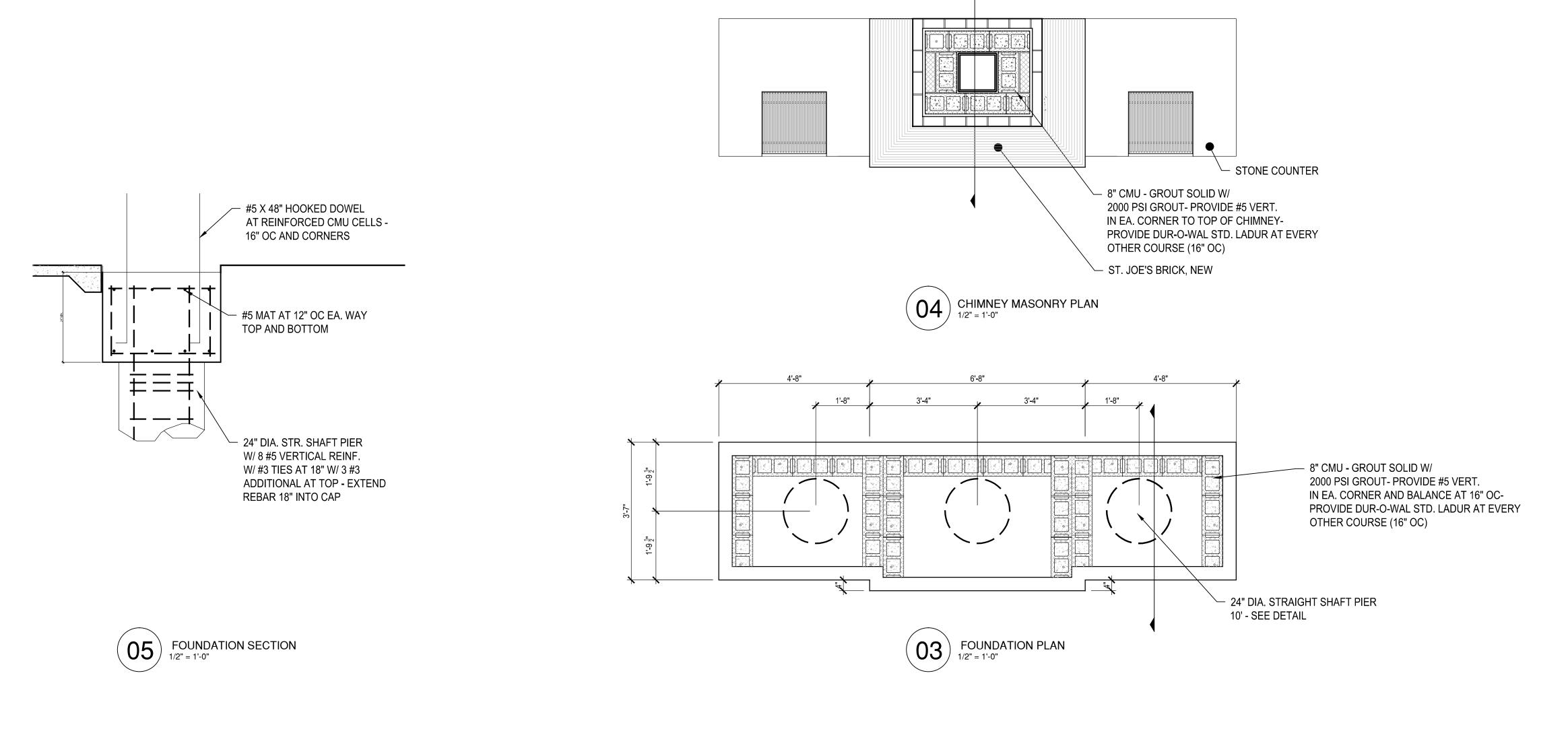
  7. Horizontal reinforcing bars shall be placed in continuous masonry courses of either bond beams or lintel beams and shall be fully grouted in place. All splices shall be wire tied. Bond beams shall have 2 \$6\$ reinforcing bars unless noted otherwise.

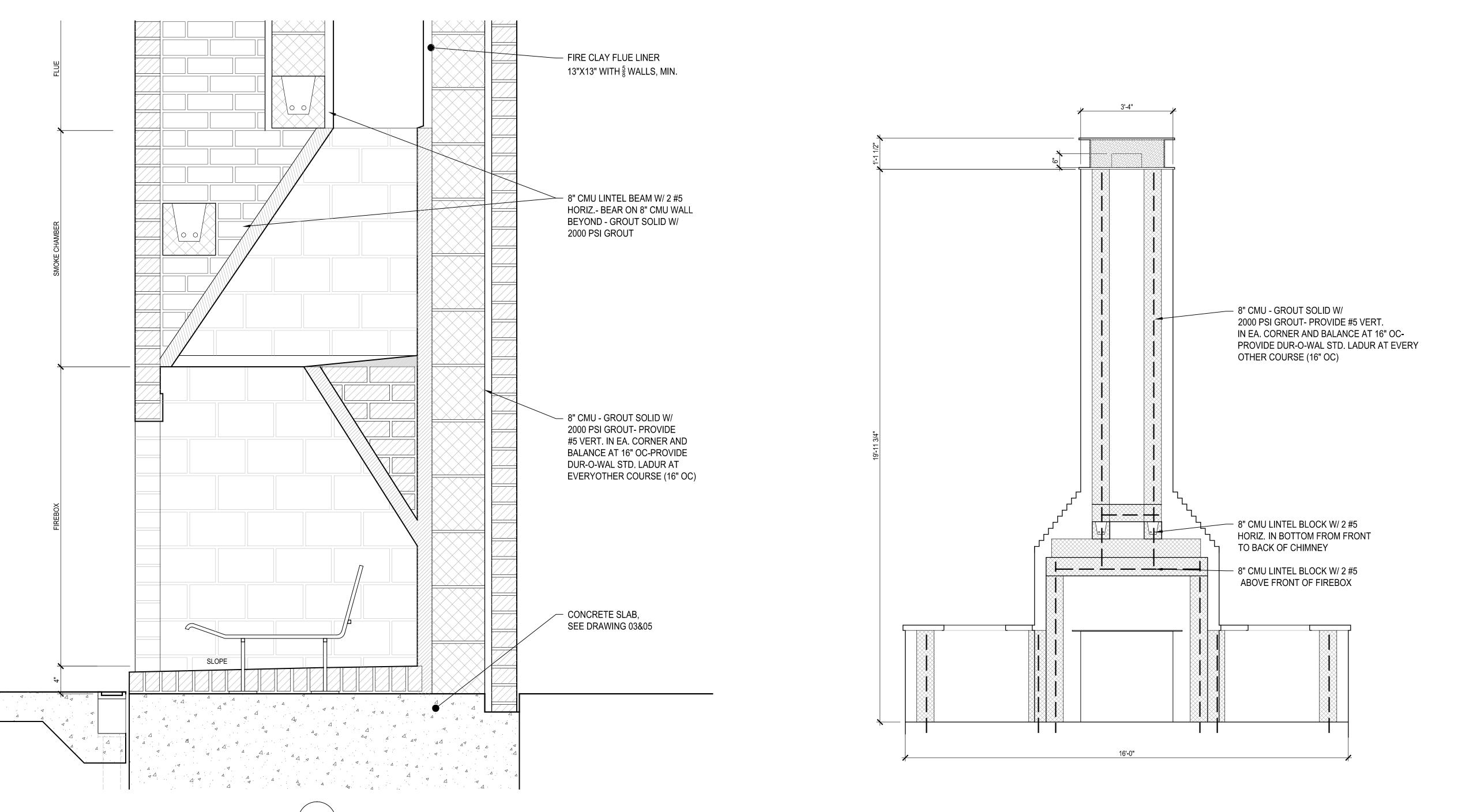
  8. All cells with vertical or horizontal reinforcing shall be fully grouted with 2000 per grout (noted above). Walls and cross webs shall be fully bedded in mortar. Cleanout openings shall be provided at the bottoms of all cells to be filled with at each lift or pour in excess of four feet.

  9. The first two cells at wall openings and corners or wall ends shall have 1 \$5\$ vertical in each cell and grouted solid from foundation to top of wall.

  10. Refer to architectural plans for all expansion and construction joint locations.

ALL MASONRY WALLS SHOWN ON THE STRUCTURAL PLANS HAVE BEEN DESIGNED TO RESIST THE NOTED BUILDING CODE LOADING CONDITIONS AFTER THE INSTALLATION OF ALL STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL PROPERLY AND ADEQUATELY BRACE MASONRY WALLS AT ALL CONSTRUCTION PHASES TO RESIST ERECTION AND LATERAL LOADS APPLIED PRIOR TO THE COMPLETION OF CONSTRUCTION.





NO.	DATE	DESCRIPTION
2	09.04.2015	50% CD
3	10.31.2016	75% CD
4	03.15.2017	95% CD
5	06.14.2017	100% CD
6	11.03.2017	100% CD
7	12.18.2017	ISSUED FOR PERMIT
$\triangle$	01.29.2018	COMMENT RESPONSE
<u>/2\</u>	04.02.2018	COMMENT RESPONSE
<u>/3\</u>	06.08.2018	COMMENT RESPONSE
8	11.02.2018	ISSUED FOR BID

**ISSUE LOG** 



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DOMINION INTERESTS INC. CONSULTING ENGINEERS ELECTRICAL 1919 Decatur ENGINEER Houston TX 77007 P: 713.626.7155 www.dominioninterests.com

# Parks Capital **Improvement** Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME :

### DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13

**REVIEWED**:

N/A PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

PROJECT MANAGER

[L-NNNN-NN-3] 1/4"=1'-0" DRAWN BY: CHECKED BY: \_\_\_

# SHEET TITLE :

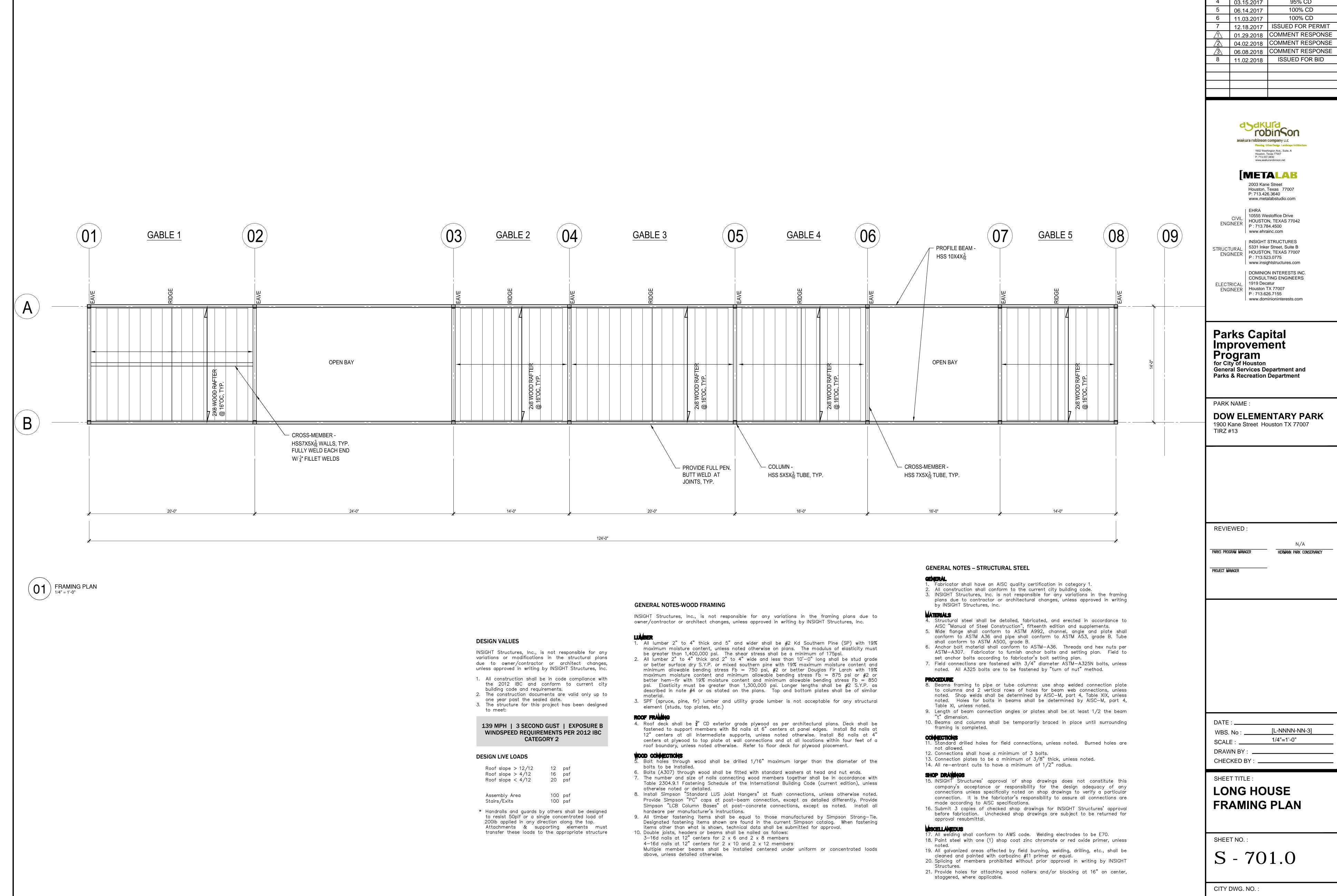
**MASONRY CHIMNEY DETAILS** 

SHEET NO.:

S - 700.2

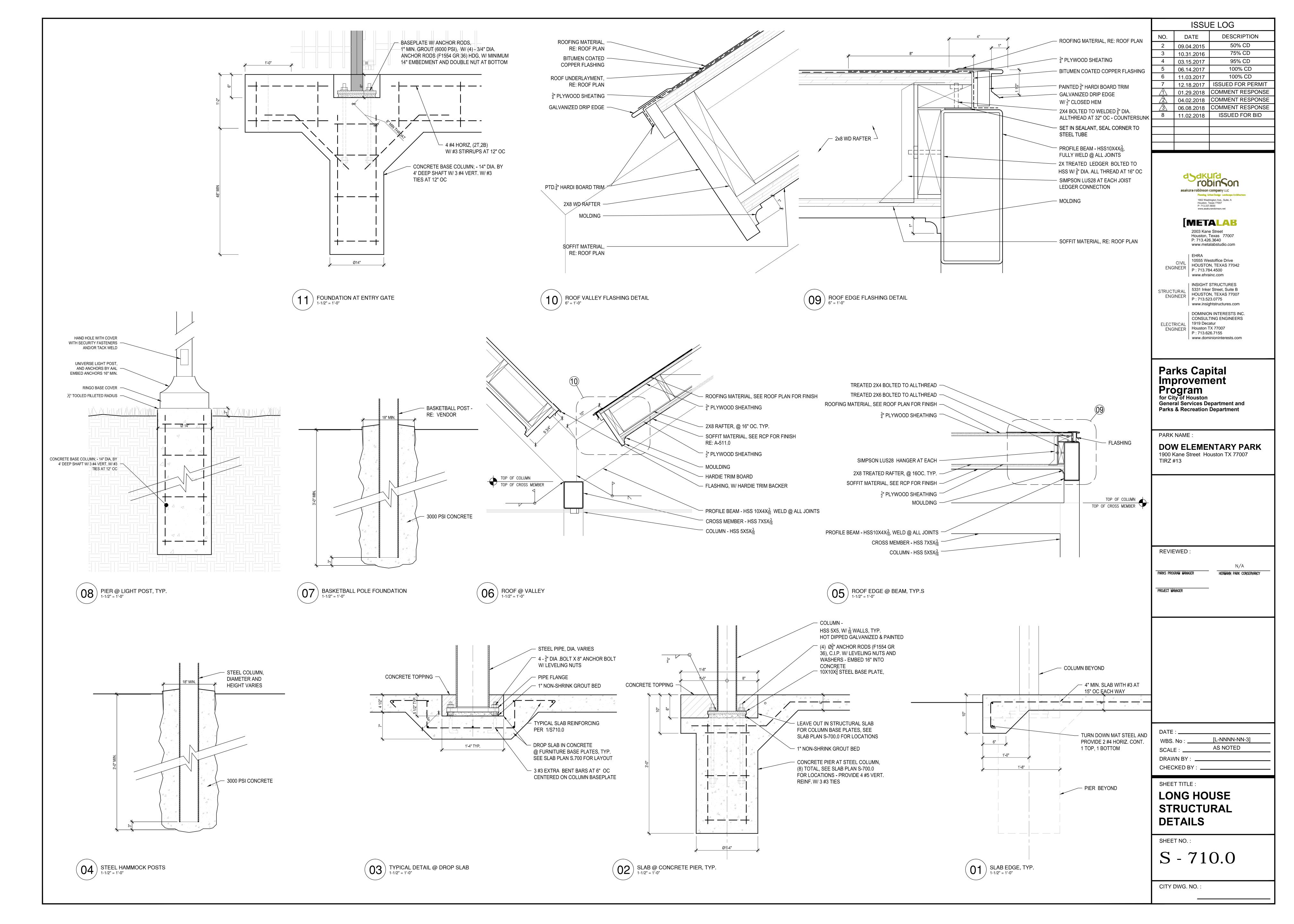
CITY DWG. NO. :

(01) CMU SECTION 1/2" = 1'-0"



DESCRIPTION NO. DATE 50% CD 09.04.2015 75% CD 10.31.2016 95% CD 03.15.2017

**ISSUE LOG** 



### GENERAL NOTES:

- A. SCOPE OF WORK:
- 1. WORK INCLUDED: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TRANSPORTATION, AND TESTING NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER AND SATISFACTORY INSTALLATION OF THE MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) TENANT IMPROVEMENTS INDICATED ON THE DRAWINGS AND SPECIFIED
- 2. EXECUTION: WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL INCLUDE ALL LABOR AND MATERIALS ESSENTIAL TO PROVIDE THE COMPLETE AND FUNCTIONING SYSTEMS DESCRIBED. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE PURCHASE, FABRICATION, OR INSTALLATION.
- B. <u>GENERAL REQUIREMENTS:</u>
- 1. DRAWINGS:
- a) DUE TO THE DRAWING SCALE, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING THE INSTALLATION OF HIS WORK AND SHALL FURNISH THE NECESSARY FITTINGS WHICH MAY BE REQUIRED TO COMPLETE THE
- b) THE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE AND ATTEMPT TO GIVE A REASONABLE INDICATION OF THE EXISTING EQUIPMENT. HOWEVER, BEFORE BEGINNING WORK. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE LOCATION AND ROUTING OF EXISTING DUCTWORK, PIPING, AIR DISTRIBUTION EQUIPMENT, ELECTRICAL FEEDERS, STRUCTURE, ETC.
- 2. ALL WORK AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, ETC., OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING FEDERAL, STATE, DISTRICT, AND LOCAL AUTHORITIES. MODIFICATIONS REQUIRED BY THE ABOVE SAID AUTHORITIES SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO THE TENANT. WHERE CONTRACT DOCUMENT REQUIREMENTS ARE IN EXCESS OF CODE REQUIREMENTS. THE CONTRACT DOCUMENTS SHALL GOVERN. DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY THE ABOVE SAID AUTHORITIES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- 3. PERMIT, FEES, AND LICENSES: FEES, PERMITS, AND LICENSES REQUIRED BY THE LEGALLY CONSTITUTED AUTHORITIES FOR INSTALLATION OF THE WORK ACCORDING TO THE PLANS AND SPECIFICATIONS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL DELIVER THE ABOVE MENTIONED CERTIFICATES TO THE OWNER'S REPRESENTATIVE.
- 4. THE CONTRACTOR SHALL REVIEW THE SITE PRIOR TO BID SUBMISSION AND SHALL INCLUDE IN HIS BID THE COST OF REPLACEMENT, REPAIR, RELOCATION, OR REMOVAL OF EXISTING MEP ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS SHOWN ON THESE DRAWINGS. ALL UNUSED TENANT EQUIPMENT SERVING THIS LEASE AREA SHALL BE REMOVED AND RETURNED TO THE LANDLORD'S STOCK. SOME WORK SHOWN MAY REQUIRE PREMIUM TIME TO AVOID DISRUPTION OF OTHER TENANT'S ACTIVITIES AND MEP SERVICES. CONTRACTOR SHALL CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE LANDLORD AND INCLUDE THE COST IN HIS BID PROPOSAL. THE CONTRACTOR BY SUBMITTING HIS BID PROPOSAL AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCEPTED. ALL EXCEPTIONS SHALL BE PROVIDED IN WRITING TO THE ARCHITECT AND ENGINEER.
- 5. EXISTING CONDITIONS: THE TENANT MEP DESIGN SHOWN ON THESE DRAWINGS IS SUPPORTED BY EXISTING BASE BUILDING MEP SYSTEMS WHICH HAVE BEEN ASSUMED TO BE IN GOOD WORKING ORDER. ANY DEFICIENCY IN THE BASE BUILDING MEP SYSTEMS WHICH PREVENTS A COMPLETE INTERFACE WITH THE TENANT SYSTEMS OR PREVENTS THE TENANT SYSTEMS FROM BEING FULLY FUNCTIONAL AT THE COMPLETION OF CONSTRUCTION SHALL BE IDENTIFIED IN WRITING BY THE CONTRACTOR TO THE BUILDING MANAGER, ARCHITECT, AND ENGINEER AS SOON AS PRACTICAL AFTER DISCOVERY.
- 6. ACCESS: PROVIDE FREE AND CLEAR ACCESS TO EXISTING OR NEW EQUIPMENT FOR MAINTENANCE. NOTHING SHALL INHIBIT THE REMOVAL OF ACCESS PANELS ON THE BOTTOM OR SIDES OF EQUIPMENT, OR INHIBIT ACCESS TO THE POWER SWITCH OR CONTROL EQUIPMENT MOUNTED ON THE EXTERIOR OF THE EQUIPMENT. THIS SHALL INCLUDE. BUT NOT BE LIMITED TO THE FOLLOWING: BEAMS. WALLS. LIGHT FIXTURES. PIPING OF ANY KIND, CONDUIT, AND CEILING SUPPORTS (OTHER THAN RUNNERS)
- 7. A SET OF RECORD/COORDINATION DRAWINGS SHALL BE MAINTAINED IN THE GENERAL CONTRACTOR'S OFFICE AT THE JOB SITE CONSISTING OF REPRODUCIBLE SEPIAS OF THE MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DRAWINGS (WITH THE ENGINEER'S NAME REMOVED). ACTUAL LOCATIONS OF ALL EQUIPMENT PIPING DUCTWORK, ETC. AND ALL DEVIATIONS OF THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE MARKED ON THE RECORD/COORDINATION DRAWINGS. EACH TRADE SHALL REVIEW THE RECORD/COORDINATION DRAWINGS AND RESOLVE ANY POTENTIAL CONFLICTS WITH OTHER TRADÉS PRIOR TO INSTALLING ANY PORTION OF THEIR WORK. THE GENERAL CONTRACTOR SHALL REQUEST AUTOCAD DRAWING FILES FROM THE PROJECT ENGINEER, INCORPORATE ALL MEP RECORD/COORDINATION DRAWING DEVIATIONS INTO THESE AUTOCAD DRAWING FILES, AND SUBMIT ELECTRONIC COPIES OF THE RECORD/ COORDINATION AUTOCAD DRAWING FILES TO THE ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- 8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO BRING TO THE ATTENTION OF THE MECHANICAL ENGINEER ANY SLAB-TO-SLAB PARTITIONS OTHER THAN THOSE SHOWN ON THE MECHANICAL DRAWINGS IN ORDER TO PRESERVE RETURN AIR PATHWAYS. ALL PENETRATIONS OF SLAB-TO-SLAB PARTITIONS SHALL BE SEALED
- 9. NEW DUCTWORK, CONDUIT, AND PIPING SHOWN ON THE DRAWINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE. CONTRACTORS SHALL COORDINATE DUCTWORK, CONDUIT, AND PIPING INSTALLATION WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION, EQUIPMENT, ETC., AND PROVIDE ADDITIONAL RISES, DROPS, AND OFFSETS AS REQUIRED. IF INSTALLED, NEW DUCTWORK, CONDUIT, OR PIPING IS FOUND TO BE IN CONFLICT WITH ARCHITECTURAL OR MEP ELEMENTS WHICH ARE EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENTS, THE DUCTWORK, CONDUIT, OR PIPING SHALL BE RELOCATED WITHOUT ADDITIONAL COST.
- 10. TENANT MEP EQUIPMENT AND ASSOCIATED SERVICES WHICH MAY EXIST WITHIN THE PROJECT AREA ARE TO BE REMOVED BACK TO THE POINT OF CONNECTION WITH BASE BUILDING SYSTEMS UNLESS NOTED OTHERWISE ON THE DRAWINGS. EXISTING TENANT EQUIPMENT WHICH IS SHOWN AS "EXISTING TO REMAIN" ON THE DRAWINGS SHALL BE RENDERED FULLY FUNCTIONAL BY THE CONTRACTOR.
- 11. EACH ITEM OF TENANT EQUIPMENT SHALL BE IDENTIFIED BY A PERMANENTLY ATTACHED LAMINATED BAKELITE NAMEPLATE WITH ENGRAVED LETTERS WITH A DESIGNATION CORRESPONDING TO THE CONTRACT DOCUMENTS. IN FINISHED SPACES NO PRODUCT SHALL HAVE A VISIBLE TRADEMARK, INSIGNIA, ETC. INTENDED TO IDENTIFY THE MANUFACTURER OR VENDOR OF THE PRODUCT, EXCEPT THAT LABELS OF REQUIRED

### TESTING AGENCIES SHALL NOT BE REMOVED. 12. GUARANTEES:

- a) THE CONTRACTOR SHALL GUARANTEE HIS WORK UNCONDITIONALLY FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE. IF, DURING THIS PERIOD, ANY MATERIALS, EQUIPMENT, OR ANY PART OF THE SYSTEM FAILS TO FUNCTION PROPERLY, THE CONTRACTOR SHALL MAKE GOOD THE DEFECTS PROMPTLY AND WITHOUT ANY EXPENSE
- b) THE EQUIPMENT AND MATERIALS INSTALLED ON THIS PROJECT SHALL CONTAIN NO ASBESTOS OR PCB. PRIOR TO OWNER'S ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR SHALL CERTIFY IN WRITING TO THE OWNER THAT THE INSTALLED EQUIPMENT AND MATERIALS CONTAIN NO ASBESTOS OR PCB. THE ENGINEER SHALL RECEIVE A COPY OF THE CERTIFICATION.

# C. SUBMITTALS:

1. EACH MEP SUBCONTRACTOR SHALL PREPARE AND SUBMIT TO THE TENANT'S REPRESENTATIVE SIX (6) BOUND BOOKLETS CONTAINING A COMPLETE LIST AND DESCRIPTION OF THE MATERIALS, SPECIALTIES, AND EQUIPMENT HE INTENDS TO FURNISH FOR THE INSTALLATION. ALL PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE DESCRIBED IN THE SUBMITTALS. THE BOOKLETS SHALL INCLUDE THE FOLLOWING CERTIFICATION STATEMENT SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE SUBCONTRACTOR AND GENERAL CONTRACTOR:

> I HEREBY CERTIFY THAT THIS SHOP DRAWING, PRODUCT DATA, AND/OR SAMPLE HAS BEEN CHECKED PRIOR TO SUBMITTAL AND THAT IT COMPLIES IN ALL RESPECTS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND PHYSICAL SPACE LIMITATIONS FOR THE PROJECT.

AT THE COMPLETION OF THE PROJECT TWO (2) BOUND BOOKLETS EACH CONTAINING ONE COPY OF ALL MEP SUBMITTALS FOR THE PROJECT SHALL BE PREPARED BY THE CONTRACTOR AS OPERATIONS AND MAINTENANCE MANUALS. ONE BOOKLET SHALL BE PROVIDED TO THE TENANT'S REPRESENTATIVE AND ONE BOOKLET SHALL BE PROVIDED TO THE LANDLORD'S REPRESENTATIVE.

# D. <u>SITE REVIEWS:</u>

- 1. ENGINEERING SITE REVIEWS MAY BE PERFORMED AT VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH A CONSTRUCTION SCHEDULE AND TIMELY UPDATES TO THE ENGINEER TO ALLOW ENGINEERING QUALITY ASSURANCE REVIEWS TO BE SCHEDULED.
- 2. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE (1) WEEKS NOTICE TO THE ENGINEER PRIOR TO THE START OF CEILING TILE INSTALLATION AND THE COMPLETION OF THE MEP SYSTEM INSTALLATION.

## **ELECTRICAL SYSTEM GENERAL NOTES:**

- A. GENERAL REQUIREMENTS:
- 1. REFER TO THE ARCHITECTURAL PLANS FOR THE FINISH, EXACT LOCATION, MOUNTING DETAILS, AND HEIGHT OF ALL DEVICES.
- 2. ALL SIZE #10, #12, AND #14 AWG CONDUCTORS SHALL BE SOLID COPPER. SIZE #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED COPPER. INSULATION SHALL BE TYPE
- 3. ALL DEDICATED RECEPTACLES SHALL BE NEMA 5-20R UNLESS OTHERWISE NOTED (ONE RECEPTACLE PER 20 AMP CIRCUIT).
- 4. SEAL ALL CONDUITS OR DATA CABLE PENETRATIONS OF FIRE RATED CONSTRUCTION WITH FACTORY BUILT DEVICES OR WITH MANUFACTURED FILL, VOID, OR CAVITY MATERIALS "CLASSIFIED" BY UNDERWRITERS LABORATORIES, INC. FOR USE AS A THROUGH-PENETRATION FIRESTOP.
- 5. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CIRCUITS SERVING THE PRESENT LEASE SPACE AND THE EXISTING SPARE CIRCUITS IN THE PANELBOARDS SERVING THIS LEASE SPACE AND SHALL REPORT ANY FIELD CONDITIONS REQUIRING CIRCUITING DEVIATIONS IN WRITING TO THE ENGINEER FOR DIRECTION PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 6. ALL EXISTING CONDUIT AND CONDUCTORS SERVING THE AREA UNDER CONTRACT NOT TO BE REUSED SHALL BE TERMINATED AT LAST PORTION OF CIRCUIT REQUIRING ENERGIZATION BEFORE THE DEMOLITION AREA. IF A CIRCUIT SERVICES ONLY THE DEMOLITION AREA, REMOVE ALL CONDUITS AND CONDUCTORS BACK TO THE PANELBOARD AND DE-ENERGIZE THE CIRCUIT BREAKER, MAKING IT A SPARE. NOTE SPARE CIRCUITS IN PANELBOARD DIRECTORY.
- 7. RELOCATE AND RECONNECT ACTIVE PORTIONS OF THE ELECTRICAL SYSTEM OUTSIDE OF THE SCOPE OF DEMOLITION, AS REQUIRED TO MAINTAIN A COMPLETE AND OPERATING SYSTEM THAT IS FUNCTIONALLY EQUIVALENT TO THE PRE-EXISTING SYSTEM PRIOR TO DEMOLITION.

### 8. GENERAL WIRING NOTES:

- a) ALL EXPOSED RACEWAYS INCLUDING THOSE IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE RIGID CONDUIT OR EMT. CONDUIT OR EMT SHALL BE EXTENDED THROUGH THE EQUIPMENT ROOM WALLS.
- b) SEPARATE HOME RUNS SHOWN ON THE DRAWINGS SHALL HAVE INDIVIDUAL PHASE, GROUND, AND NEUTRAL CONDUCTORS AS SHOWN ON THE DRAWINGS BROUGHT BACK TO
- THE PANELBOARD. c) FOR 20 AMP CIRCUITS, NOT MORE THAN SIX #12 AWG THW OR NINE #12 AWG THHN

CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN EACH RACEWAY.

d) ALL 120 VOLT, 20 AMP HOME RUNS LONGER THAN 100 FEET AND ALL 277 VOLT, 20 AMP HOME RUNS LONGER THAN 150 FEET SHALL BE #10 AWG MINIMUM.

e) CONCEALED WIRING IN FINISHED AREAS WHERE PERMITTED BY LOCAL CODE MAY BE

- TWO WIRE AC OR THREE WIRE MC TYPE ARMORED CABLE FOR CONNECTING RECEPTACLE OR SWITCH CIRCUITS TO THE GRID SYSTEM. AC CABLE SHALL CONSIST OF TWO #12 AWG SOLID COPPER THHN INSULATED CONDUCTORS AND A BARE #18 AWG GROUNDING JUMPER IN A FLEXIBLE ALUMINUM OR STEEL JACKET AND SHALL BE MANUFACTURED BY SOUTHWIRE OR AFC. TYPE MC CABLE SHALL CONTAIN A #12 AWG SOLID COPPER THHN INSULATED GROUNDING CONDUCTOR. CABLES WITH LARGER WIRE SIZES SHALL BE USED WHERE REQUIRED TO LIMIT VOLTAGE DROP. ARMORED CABLE SHALL NOT BE BUNDLED TOGETHER AND SHALL NOT BE CLIPPED TO THE CEILING GRID SUPPORT WIRES OR SUPPORTED FROM PIPING OR DUCTWORK SUPPORT SYSTEMS. JUNCTION BOXES ABOVE THE CEILING SHALL BE RIGIDLY ATTACHED TO THE BUILDING STRUCTURE. ISOLATED GROUND CIRCUITS SHALL BE RUN WITH MC OR SUITABLY MARKED THREE WIRE AC CABLE.
- 9. PANELBOARDS SHALL BE FURNISHED WITH BOLT-ON TYPE THERMAL-MAGNETIC TRIP CIRCUIT BREAKERS.
- 10. EMT CONNECTORS AND COUPLINGS SHALL BE STEEL SET SCREW TYPE. ARMORED CABLE CONNECTORS AND COUPLINGS SHALL BE MALLEABLE IRON CLAMP TYPE CONDUCTORS #6 AWG AND LARGER SHALL BE CONNECTED WITH HIGH CONDUCTIVITY WROUGHT COPPER COLOR KEYED COMPRESSION CONNECTORS. CONDUCTORS #8 AWG AND SMALLER SHALL BE CONNECTED WITH PRE-INSULATED SPRING CONNECTORS.
- 11. UNLESS OTHERWISE NOTED, ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE WHITE "DECORA" STYLE WITH WHITE PLASTIC COVER PLATES AND SHALL BE EQUAL TO PASS AND SEYMOUR/LEGRAND "SIERRAPLEX" SERIES.
- 12. PANELBOARDS SHALL BE ARRANGED AS SHOWN ON THE DRAWINGS AND BE EQUAL TO GE TYPE AE (277/480 VOLT) OR GE TYPE AQ (120/208 VOLT) WITH BOLT-ON TYPE THERMAL-MAGNETIC TRIP CIRCUIT BREAKERS. BUS BARS SHALL BE COPPER. EACH 120/208 VOLT PANELBOARD SHALL BE PROVIDED WITH AN EQUIPMENT GROUND BUS. MAIN LUGS CONNECTED TO #1/0 OR LARGER CONDUCTORS SHALL BE FURNISHED TO ACCOMMODATE COMPRESSION CONNECTORS. I.T.E. MANUFACTURED EQUIPMENT COMPLYING WITH THESE SPECIFICATIONS WILL BE ACCEPTED.
- 13. CONTRACTOR SHALL PROVIDE AND INSTALL EITHER SWITCHGEAR MANUFACTURER LISTED AND IDENTIFIED HANDLE TIES OR MULTI-POLE CIRCUIT BREAKERS FOR ALL MUTIWIRE BRANCH CIRCUITS TO COMPLY WITH 2008 NATIONAL ELECTRICAL CODE (NEC) ARTICLE 210.4.
- 14. THE CONTRACTOR SHALL FIELD SURVEY THE EXISTING ELECTRICAL PANELS AND SHALL ADD OR RELOCATE CIRCUIT BREAKERS AS REQUIRED TO PROVIDE THE BRANCH CIRCUITS INDICATED ON THE DRAWINGS. EXISTING CIRCUIT BREAKERS NOT USED SHALL REMAIN AND BE LABELED SPARES ON NEW ELECTRICAL PANEL SCHEDULES.
- 15. THE CONTRACTOR SHALL PROVIDE UPDATED (TYPEWRITTEN) ELECTRICAL PANEL SCHEDULES FOR ALL ELECTRICAL PANELS WITH CIRCUIT CHANGES.
- SUBMITTALS: DIVISION 16 PRODUCTS, PROCESSES, AND MATERIALS TO BE INCLUDED IN HE SUBMITTAL PACKAGE SHALL INCLUDE THE FOLLOWING, WHERE THE LISTED ITEM IS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEMS SHOWN ON THE
- PANELBOARDS. WIRE AND CABLE.

DRAWINGS:

- WIRING DEVICES. SWITCHES AND FUSES.
- LIGHTING FIXTURES. FIRE ALARM SYSTEM.
- OTHER ITEMS AS REQUIRED BY THE DRAWINGS.

# PLUMBING SYSTEM GENERAL NOTES:

# A. GENERAL REQUIREMENTS:

- 1. DOMESTIC WATER AND DRAIN PIPING FOR 150 PSIG WORKING PRESSURE SYSTEMS SHALL EITHER BE ASTM-A-120-57T SCHEDULE 40 GALVANIZED STEEL WITH SCREWED FITTINGS OR TYPE "L" HARD DRAWN COPPER WITH ASTM-B-32-76 GRADE 95TA TIN-ANTIMONY SOLDERED JOINTS. CONNECTIONS BETWEEN STEEL AND COPPER PIPING SYSTEMS SHALL BE MADE WITH INSULATING UNIONS OR COUPLINGS. STOP VALVES SHALL BE BRONZE BALL VALVES WITH STAINLESS STEEL BALLS AND TEFLON PACKING AND GASKETS. HANGERS FOR HORIZONTAL PIPE SHALL BE EQUAL TO ITT GRINELL FIGURE 260 (OR FEE AND MASON FIGURE 364 WITH FIGURE 227 ADJUSTABLE FOR COPPER PIPE).
- 2. ALL DOMESTIC HOT WATER PIPING LESS THAN OR EQUAL TO 1 1/2" DIAMETER SHALL BE INSULATED WITH 1 INCH THICK GLASS FIBER INSULATION (ASTM C547) WITH THERMAL CONDUCTIVITY (K-FACTOR) OF 0.27 BTU-IN/HR PER SF PER DEGREE F AT 75 DEGREE F MEAN TEMPERATURE. ALL DOMESTIC HOT WATER PIPING GREATER THAN 1 1/2" DIAMETER SHALL BE INSULATED WITH 2 INCH THICK GLASS FIBER INSULATION (ASTM C547) WITH THERMAL CONDUCTIVITY (K-FACTOR) OF 0.27 BTU-IN/HR PER SF PER DEGREE F AT 75 DEGREE F MEAN TEMPERÀTURE. DÓMESTIC HOT WATER PIPING SHALL BE JOHNS-MANVILLE "MICRO-LOK" OR APPROVED EQUAL WITH "AP" NON-COMBUSTIBLE JACKET IN ALL LOCATIONS.
- 3. SANITARY WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH ONE OF THE FOLLOWING:
- a) BELL AND SPIGOT JOINTS YARNED AND WITH JUTE, COMPACTED AND POURED WITH ONE CONTINUOUS 1 INCH DEPTH OF LEAD CAULKED AT LEAST THREE TIMES AROUND.
- b) TYLER "TY-SEAL" JOINTS WITH NEOPRENE POSITIVE SEAL ELASTOMERIC COMPRESSION TYPE GASKETS WHERE EACH HORIZONTAL JOINT IS ADEQUATELY SUPPORTED ON ONE SIDE OF THE JOINT WITHIN 12-INCHES OF THE JOINT.
- c) TYLER "NO-HUB" STAINLESS STEEL CONNECTORS WHERE HANGERS ARE INSTALLED ON SIDES OF EACH NO HUB JOINT WITHIN 12-INCHES OF THE JOINTS AND OFFSLIS ARE RESTRAINED IN AN APPROVED MANNER. 4. HANGERS FOR HORIZONTAL SANITARY PIPING SHALL BE EXPANSION RING OR CLEVIS TYPE
- SPACED NO MORE THAN 5-FEET APART. VERTICAL PIPE PASSING THROUGH SLABS SHALL BE SUPPORTED WITH FEE & MASON FIGURE 241 RISER CLAMPS.

5. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH MINIMUM 16 GAUGE GALVANIZED

STEEL, FIRE AND WATER STOPPED, AND EXTENDING 2-INCHES ABOVE THE SLAB.

6. CONTRACTOR SHALL FIELD REVIEW THE LEASE SPACE PRIOR TO STARTING ANY WORK. ALL EXISTING PVC PLUMBING PIPING INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE REMOVED AND REPLACED WITH ABOVE NOTED PLUMBING PIPING MATERIALS.

	ELECTRICAI	l F	FGFND
	NOTE: AN "E" ADJACENT TO A S	YMBOL INDI	CATES EXISTING TO REMAIN.
	FLUORESCENT LIGHTING FIXTURE (SEE FIXTURE SCHEDULE)	LA-1	EXISTING 120 VOLT POWER GRID JUNCTION BOX MOUNTED IN CEILING—
0	INCANDESCENT LIGHTING FIXTURE (CEILING MOUNTED)	Ъ	HOMERUN INDICATES BRANCH CIRCUITS AVAILABLE
Q	INCANDESCENT LIGHTING FIXTURE	HA-1	EXISTING 277 VOLT LIGHTING GRID JUNCTION BOX MOUNTED IN CEILING—
	(WALL MOUNTED) LIGHTING FIXTURE ON EMERGENCY		HOMERUN INDICATES BRANCH CIRCUITS AVAILABLE
0	AND/OR NIGHT LIGHTING CIRCUIT	O A	LIGHTING FIXTURES-LETTERS OUTSIDE
$\uparrow \otimes \uparrow$	EXIT LIGHT (DOUBLE SIDED) DIRECTIONAL ARROWS AS INDICATED	С	INDICATE FIXTURE TYPE. LETTERS INSIDE INDICATE OPERATING SWITCH
1⊗	EXIT LIGHT (SINGLE SIDED) DIRECTIONAL ARROWS AS INDICATED		EXISTING CONDUIT
$\stackrel{\mid}{\otimes}$	EXIT LIGHT (SINGLE SIDED)	C.O.	CONDUIT IN OR UNDER FLOOR  CONDUIT WITH PULLWIRE ONLY—
<u> </u>	DIRECTIONAL ARROWS AS INDICATED  EXIT LIGHT (WALL MOUNTED)	<u> </u>	SIZE AS SHOWN  FLEXIBLE METAL CONDUIT—
-	DIRECTIONAL ARROW AS INDICATED  EXIT LIGHT (WALL MOUNTED)		SEE SPECIFICATIONS FOR USE
<u> </u>	DIRECTIONAL ARROW AS INDICATED	LA-1	HOMERUN TO PANEL, PANEL AND CIRCUIT INDICATED. SEE PANEL
<u> </u>	JUNCTION BOX (CONCEALED ABOVE CEILING)		SCHEDULE FOR NUMBER OF CONDUCTORS AND ANY SPECIAL REQUIREMENTS
Ū.	JUNCTION BOX (SURFACE MOUNTED)	(C)	ELECTRIC THERMOSTAT
$\bigcirc$	JUNCTION BOX (WALL MOUNTED)  JUNCTION BOX - 277/480 VOLT		CLOCK OUTLET TIME CLOCK
$\frac{1}{2}$	JUNCTION BOX - GRID		PUSHBUTTON-REMOTE CONTROL STATION
<u> </u>	TOGGLE SWITCH - SINGLE POLE		BELL
<b>\$</b> <sup>2</sup>	TOGGLE SWITCH - TWO POLE		BUZZER
<b>\$</b> ³	TOGGLE SWITCH - THREE WAY	<u> </u>	SOUND SYSTEM SPEAKER OUTLET
<b>\$</b> ₽	TOGGLE SWITCH - WITH PILOT LIGHT		INTERCOM STATION
<b>\$</b> <sup>K</sup>	KEYED SWITCH		TELEPHONE TERMINAL BOARD
\$м	MANUAL MOTOR CONTROLLER WITH OVERLOAD PROTECTION	70/	SINGLE PHASE MOTOR THREE PHASE MOTOR
<b>\$</b> ^	SPST_LIGHT_SWITCH-LETTER_DENOTES	M '0'	MOTOR CONTROLLER WITH NEMA SIZE
<u>Φ</u>	FIXTURES TO BE CONTROLLED		COMBINATION MOTOR CONTROLLER/
	DIMMER SWITCH  MULTI-OUTLET STRIP (PLUGMOLD)		CIRCUIT BREAKER
<del> </del>	SIMPLEX RECEPTACLE—FLUSH MOUNTED		FUSED OR NON-FUSED DISCONNECT (3P-30/NF U.N.O.)
	SIMPLEX RECEPTACLE—SURFACE MOUNTED	В	CIRCUIT BREAKER IN NEMA SIZE 1
<b>+</b>	DUPLEX RECEPTACLE-FLUSH MOUNTED		CONTROLLER  CONTROL PANEL UNDER ANOTHER
<del>-</del>	DUPLEX RECEPTACLE—SURFACE MOUNTED		DIVISION-FURNISHED WITH EQUIPMENT
	SPECIAL RECEPTACLE		MODULAR WIRING DISTRIBUTION BOX
	SPLIT-WIRED RECEPTACLE  CRT/COMPUTER RECEPTACLE	M GFI	ELECTRICAL SERVICE METER
$\Theta$	WITH GROUNDING STRAP	Gri	GROUND FAULT INTERRUPTER  LOW VOLTAGE PANELBOARD—
Ф₩Р	WEATHERPROOF DEVICE		FLUSH MOUNTED
	BUS DUCT RISER		LOW VOLTAGE PANELBOARD— SURFACE MOUNTED
<u>(E)</u>	ELEVATOR LOBBY EMERGENCY SIGN PHOTELECTRIC TYPE SMOKE DETECTOR		HIGH VOLTAGE PANELBOARD— FLUSH MOUNTED
(1)	IONIZATION TYPE SMOKE DETECTOR		HIGH VOLTAGE PANELBOARD— SURFACE MOUNTED
®	RATE OF RISE HEAT DETECTOR		POWER TRANSFORMER
	SPEAKER HORN  MANUAL PULL STATION—FIRE ALARM	MS	MAIN SWITCHBOARD
F <b>D</b>	FIREMANS TELEPHONE JACK	☐ DP	DISTRIBUTION PANEL
F▶	FIREMANS TELEPHONE JACK W/HANDSET	MCC 27	MOTOR CONTROL CENTER
(SP)	MONITOR FOR SUPERVISED VALVES	<u> </u>	AUTOMATIC TRANSFER SWITCH CONTACTOR
DGP	DATA GATHERING PANEL	PC	PHOTOCELL
	HIGH LEVEL ALARM		FUSE
LOL	LOW LEVEL ALARM	<u> </u>	CIRCUIT BREAKER
(OFL)	OVERFLOW ALARM	<u> </u>	GROUND
<b>®</b> <b>(F)</b> 15,30	WATER FLOW SWITCH  ADA APPROVED FIRE ALARM STROBE		NORMALLY OPEN CONTACT
60,110	W/ HOUT NITENOUTY LEVEL AS NOTED	<del>                                    </del>	NORMALLY CLOSED CONTACT
AV 15,30	ADA APPROVED FIRE ALARM AUDIBLE/ STROBE W/ LIGHT INTENSITY LEVEL AS	<u>→</u> —	SINGLE-POLE, SINGLE-THROW SWITCH DISCONNECT OR DRAW-OUT DEVICE
60,110	NOTED.	<u> </u>	CAPACITOR
<b>A</b>	COMMUNICATION OUTLET  WALL MOUNTED COMMUNICATION OUTLET	M, o,	COAXIAL CABLE OUTLET COMBINATION MOTOR CONTROLLER/
<b>▲</b> <sub>W</sub>			DISCONNECT WITH NEMA SIZE
$lack \Delta$	WALL MOUNTED COMMUNICATION OUTLET  COMMUNICATION FLOOR OUTLET	(a)	CONTINUATION OF WIRING TO SIMILAR SYMBOL WITH MATCHING LETTER INSIDE OF CIRCLE
<u> </u>	POWER FLOOR OUTLET	<b> </b>	
$\bigcirc$	DATA FLOOR OUTLET		
		<u> </u>	

LEGEN	ID OF PLU	MB	NG	S'	YME	30L	.S
	FIXTUF	RES					
SYMBOLS	DESCRIPTION	SOIL	SIZE (		NNEC c.w.	TION H.W.	I.W.
<b>№</b> wc	WATER CLOSET	4"	WASIE	2"	1"		
<b>№</b> w c	(FLUSH VALVE) WATER CLOSET	4"		2"	1/2"		
<b>22.5</b> · · · · ·	(TANK TYPE)  URINAL	2"		2"	1"		
	LAVATORY	_	11/4"		1/2"	1/2"	
BT BT	BATH TUB	_	·		1/2"		
SS SS	SERVICE SINK		3"	2"	1/2"		
	SINK		2"	2"		,	
			2"	2"	1/2"		
SK-"X"	SINK (BY OTHERS)				1/2"	,	
7	SHOWER  ELECTRIC WATER		2"	2"	1/2"	1/2"	
EWC	COOLER	_	•	11/4"			
DF DF	DRINKING FOUNTAIN		11/4"	11/4"			1/2"
FHC	FIRE HOSE CABINET		_		11/2"		
∃   FHR	FIRE HOSE RACK	_	_	_	11/2"		
FHV	FIRE HOSE VALVE	_	_	_	21/2"	_	
	SANITARY SOIL OR WASTE	0	A.D.	A	REA D	RAIN	
	SANITARY VENT		F.D.		OOR I		
— SD —	STORM DRAINAGE		R.D.		OOF D		
	- COLD WATER (CW)		H.D.		UB DR		
	HOT WATER SUPPLY (HWS)	T	·	H	OSE B	IBB	
	HOT WATER RETURN (HWR)		<b>V</b> .T.	R. <sub>VI</sub>	ENT TH	HRU RO	OF
	ICE WATER SUPPLY (IWS)	AF	F		BOVE _OOR	FINISHE	D
	ICE WATER	PIV		Р		DICATO	)R
— F —	RETURN (IWR)  FIRE LINE	UH			NIT HE	ATER	
— G —	- GAS LINE	1	_	TH	HERMO	METER	
	- GAS COCK		_	TH	HERMO	METER	WELL
<b>→</b>	GATE VALVE	P	$\overline{}$		LUMBIN TACK	IG WAS	STE
<del></del>	- UNION	DS		S		WATER OUT	
<b>-</b> N-	- CHECK VALVE	F	$\overline{}$			ANDPIF	Έ
<u> </u>	STRAINER	<b>-</b> s	P <b>—</b>	SI	PRINKL	ER PIF	Έ
<u></u>	- GLOBE VALVE	1	FDC		RE DE ONNEC		
<del>-</del>	PLUG VALVE		FPCT	FI		MP TE	ST
	BALANCING VALVE		<b>W</b> .H.			HYDRA	NT
_ <del>_</del> <del>_</del>	- CONTROL VALVE		<b>F</b> .B.	F	LOOR	вох	
<b>Q</b> ,	PRESSURE GAGE WITH GAGE COCK	0	EWH		CTRIC CTER	WATE	:R
<b>&gt;</b>	RELIEF VALVE			PRE		E RED	U-
<u> </u>				BAC	KFLO VENTI	W	
()							

ELECTRICAL	LINE	TYPF	LEGEND

EXISTING ELECTRICAL EQUIPMENT TO REMAIN.

NEW ELECTRICAL EQUIPMENT.

---- EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED.

# MECHANICAL/PLUMBING LINE TYPE LEGEND

EXISTING MECHANICAL AND PLUMBING EQUIPMENT TO REMAIN.

NEW MECHANICAL AND PLUMBING EQUIPMENT.

---- EXISTING MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED.

ISSUE LOG					
NO.	DATE	DESCRIPTION			
	04.03.2015	100% DD			
	09.04.2015	50% CD			
	10.31.2016	75% CD			
	03.15.2017	95% CD			
	11.03.2017	100% CD			
	12.18.2017	ISSUED FOR PERMIT			
	09.28.2018	BID & CONSTRUCTION			



# METALAB

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Parks Capital **Improvement** Program for City of Houston **General Services Department and** Parks & Recreation Department

PARK NAME:

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007



REVIEWED

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY

DEPARTMENT

PROJECT MANAGER



DATE :	09-28-18
DII No :	14010-842-01
SCALE :	AS NOTED
DRAWN BY :	DII
CHECKED BY:	DII

SHEET TITLE:

**ELECTRICAL** PLUMBING GENERAL NOTES & LEGENDS

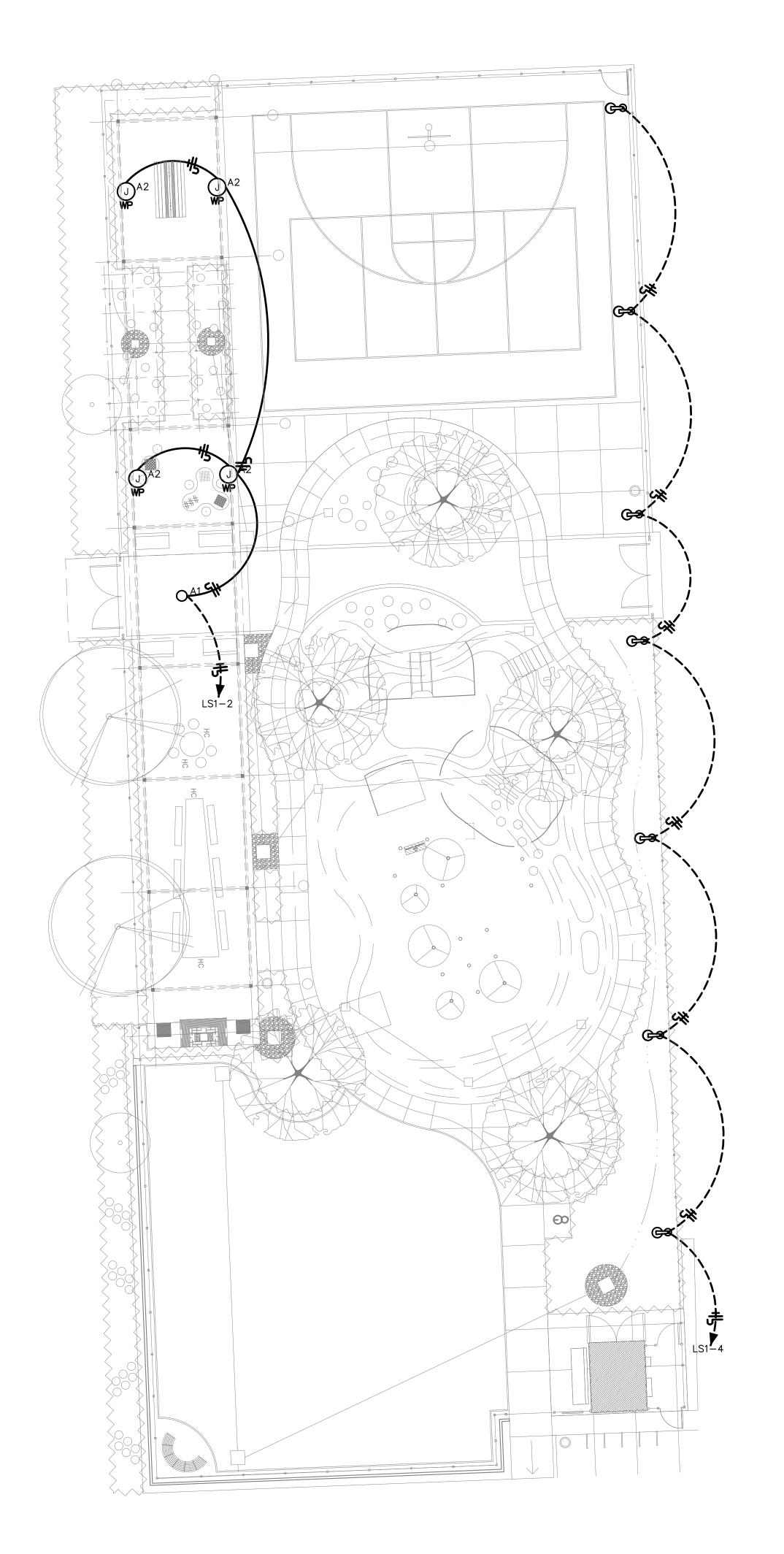
SHEET NO.

**EP1.0** 

CITY DWG. NO.:

 ${f D}$ OMINION  ${f I}$ NTERESTS, ${f I}$ NC CONSULTING ENGINEERS 2402 COMMONWEALTH STREET, SUITE 200 HOUSTON, TEXAS 77006 713.626.7155 / FAX: 832-699-2497

TEXAS REGISTRATION NO. F-6861



MADIZ	MANUFACTURER AND	MOUNTING -		IPS	VOLTE	DEMARKS
MARK	CATALOG NUMBER	MOUNTING	WATTS	TYPE	VOLTS	REMARKS
0A <b>B</b>	STERNBERG LIGHTING #1A-1910LEDRLM24-5P- 3ARC30T4-MDL03-A-EZ/R2/	POLE	52W MAX.	LED	120	
1	8712T4125/BKT STERNBERG LIGHTING #8712T4125/BKT	POLE			(	12'-0" TALL 4"-3" TAPERED SMOOTH ALUMINUM POLE (ONE FOR EACH TYPE "OA" SITELIGHT) WITH 3" O.D. TENON.
A1	ARCHITECTURAL AREA LIGHTING #UMC-FLR-T5-32LED-3K-700- BL-120-277	PENDANT	1/71	LED	120	REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
A2	LUMIERE	SURFACE	1/50	MR16	120	UP/DOWN SINGLE HEAD HALOGEN WALL

### LIGHTING FIXTURE SCHEDULE NOTES:

- 1. THIS LIGHTING FIXTURE SCHEDULE SHALL APPLY TO LIGHT FIXTURES USED ON THIS PROJECT IN THE ABSENCE OF AN ARCHITECTURAL LIGHT FIXTURE SCHEDULE. DIFFERENCES BETWEEN VOLTAGE AND/OR WATTAGE OF LIGHT FIXTURES SCHEDULED ON THE ELECTRICAL DRAWINGS AND THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BY THE CONTRACTOR. IF EXISTING LIGHTING FIXTURES ARE REUSED, REPAIR AS REQUIRED. RE-LAMP ALL NON-FUNCTIONING LAMPS AND PROVIDE THERMAL OVERLOAD PROTECTION AS REQUIRED. REFER TO DRAWINGS L-6.1 AND A-511.0 FOR ADDITIONAL LIGHTING FIXTURE INFORMATION AND DETAILS.
- 2. ALL COMPACT FLUORESCENT LIGHTING FIXTURES SHALL BE PROVIDED WITH LAMPS AND BALLASTS HAVING AN "END OF LIFE" PROTECTION FEATURE.
- 3. ALL FLUORESCENT LIGHTING FIXTURES SHOWN TO BE DIMMED SHALL BE PROVIDED WITH DIMMING TYPE LAMPS AND BALLASTS.
- 4. ALL RECESSED LIGHTING FIXTURES NOT INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE TYPE IC RATED, MANUFACTURED WITH NO PENETRATIONS BETWEEN THE INSIDE OF THE RECESSED LIGHTING FIXTURE AND THE CEILING CAVITY AND SEALED TO PREVENT AIR LEAKAGE, OR SHALL BE INSTALLED IN A SEALED BOX MAINTAINING THE REQUIRED CLEARANCES OF NOT LESS THAN 1" FROM COMBUSTIBLE MATERIAL AND NOT LESS THAN 3" FROM INSULATION MATERIAL.
- 5. ALL FLUORESCENT LIGHTING FIXTURES SHOWN TO BE CONTROLLED BY OCCUPANCY SENSORS SHALL BE PROVIDED WITH PROGRAM START TYPE BALLASTS.

# ELECTRICAL LIGHTING PLAN NOTES:

- BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE TENANT IMPROVEMENT CONTRACT DOCUMENTS.
- 2. REFER TO DRAWING EP.1 ELECTRICAL/PLUMBING GENERAL NOTES AND LEGENDS.
- 3. REFER TO DRAWING EP1.1 FOR ELECTRICAL PANEL AND EQUIPMENT LOCATIONS.

ISSUE LOG				
NO.	DATE	DESCRIPTION		
	04.03.2015	100% DD		
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	12.18.2017	ISSUED FOR PERMIT		
^	09.28.2018	BID & CONSTRUCTION		
1	01.14.2019	ADDENDUM 1		

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### SEAL:

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# Parks Capital **Improvement** Program for City of Houston General Services Department and Parks & Recreation Department

# PARK NAME :

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13



DEPARTMENT

REVIEWED:

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY



DATE :	01-14-19
DII No :	14010-842-01
SCALE :	AS NOTED
DRAWN BY :	DII
CHECKED BY: .	DII

SHEET TITLE:

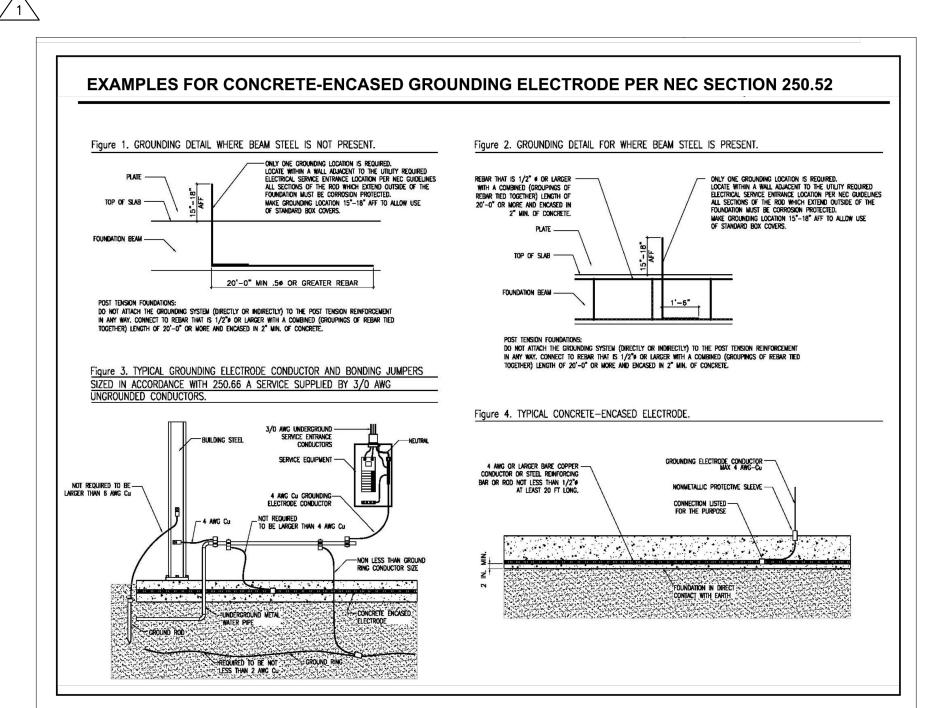
# **ELECTRICAL LIGHTING PLAN**

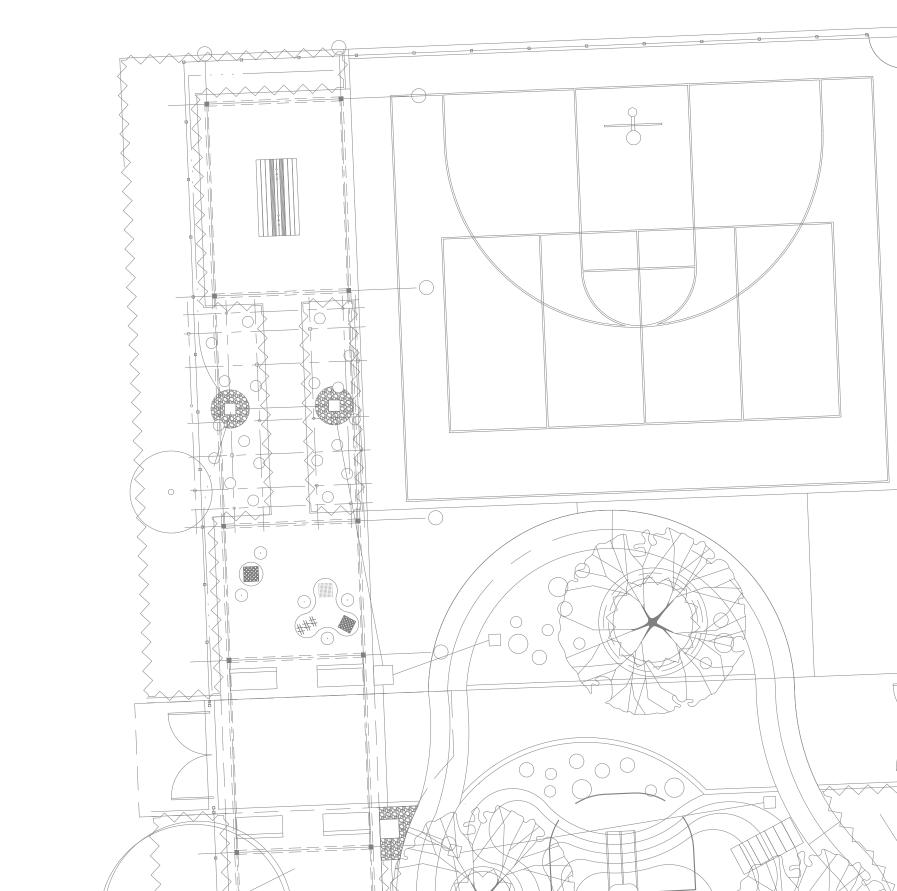
SHEET NO. :

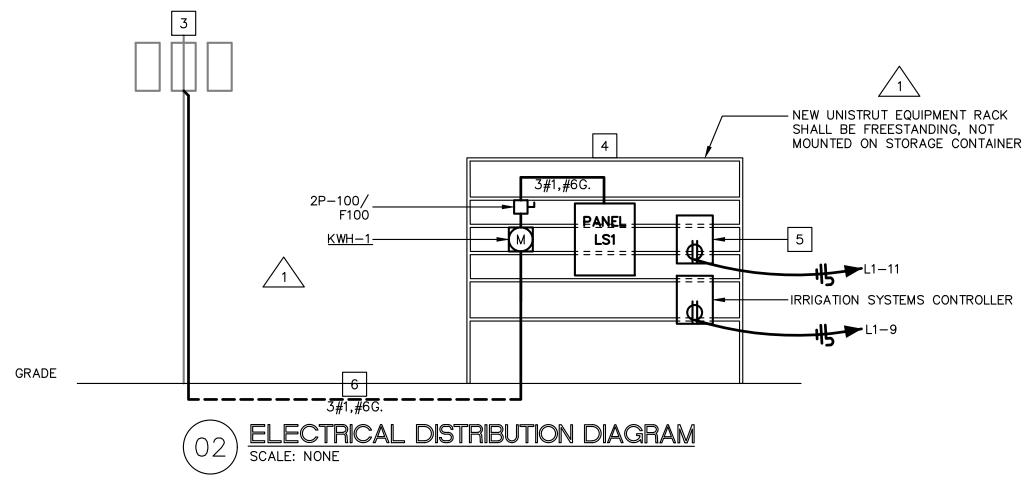
**EL1.1** 

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TEXAS REGISTRATION NO. F-6861







### **ELECTRICAL DISTRIBUTION DIAGRAM NOTES:**

- 1. REFER TO DRAWING EP.1 FOR ELECTRICAL/PLUMBING GENERAL NOTES, DETAILS, AND LEGENDS.
- 2. CONTRACTOR SHALL PROVIDE AND INSTALL CITY OF HOUSTON (COH) STANDARD RMC, IMC, OR PLASTERBOND FOR ALL ABOVE GRADE CONDUIT. ALL GROUND BOXES SHALL BE COH STANDARD "QUAZITE TYPE" (NO CONCRETE, NO METAL COVERS). CONTRACTOR SHALL PROVIDE AND INSTALL COH STANDARD ELECTRICAL SERVICE CONCRETE PAD AND BLACK WROUGHT IRON FENCE WITH TWO (2) GATES (ONE FOR PARKS AND ONE FOR CENTERPOINT ENERGY). CONTRACTOR SHALL ENSURE THAT ALL CITY OF HOUSTON AND CODE REQUIRED ELECTRICAL SERVICE CLEARANCES ARE PROVIDED. CONTRACTOR SHALL FIELD COORDINATE ALL CITY OF HOUSTON STANDARD REQUIREMENTS WITH OWNER AND PROJECT ARCHITECT PRIOR TO FINALIZING ANY PRICING OR STARTING ANY WORK.
- 3. APPROXIMATE LOCATION OF EXISTING ELECTRICAL UTILITY POLE. CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, ETC. WITH CENTERPOINT ENERGY PRIOR TO STARTING ANY WORK.
- 4. APPROXIMATE LOCATION OF NEW 120/240 VOLT, SINGLE PHASE, 3 WIRE, 100 AMP ELECTRICAL SERVICE. CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, ETC. WITH PROJECT ARCHITECT AND CENTERPOINT ENERGY PRIOR TO STARTING ANY WORK.
- 5. APPROXIMATE LOCATION OF NEW LC&D "BLUE BOX" MODEL NUMBER GR1416LT/8- DTCMODEM-HL-SM LIGHTING CONTROL RELAY PANEL WITH NEMA 4 ENCLOSURE AND PHOTOCELL. NEW IECC COMPLIANT LIGHTING CONTROL SYSTEM SHALL AUTOMATICALLY SHUT OFF LIGHTING FIXTURES ON A SCHEDULED BASIS, USING TIME OF DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE. CONTRACTOR SHALL PROVIDE FACTORY REPRESENTATIVE (LESCO, INC. - MR. TREVOR CONE 713-924-1104) LIGHTING CONTROL SYSTEM PROGRAMMING, START-UP, AND OWNER TRAINING.
- 6. IN ACCORDANCE WITH CITY OF HOUSTON REQUIREMENTS, CONTRACTOR SHALL PROVIDE AND INSTALL BELOW GRADE SCHEDULE 80 PVC CONDUIT BEFORE AND AFTER THE FIRST 90 DEGREE ELBOW. CONTRACTOR SHALL ENSURE THAT ALL CITY OF HOUSTON AND CODE REQUIRED ELECTRICAL SERVICE CLEARANCES ARE PROVIDED. CONTRACTOR SHALL FIELD COORDINATE ALL CITY OF HOUSTON STANDARD REQUIREMENTS WITH OWNER AND PROJECT ARCHITECT PRIOR TO FINALIZING ANY PRICING OR STARTING ANY WORK.

					PANE	L LS1			1 PHASE, 3W, 120/2	240V, 225 AMF	BUS
					(EXIS	TING)					
VOLT	WIRE/				2P-2	25A				WIRE/	VOLT
AMPS	CONDUIT	SERVING	BKR		MC	В		BKR	SERVING	CONDUIT	AMPS
		SPARE	1P-20	1	Α		2	1P-20	A1 & A2 LIGHTS	#8	270
		Į.	1P-20	3		C	4	1P-20	OA POLE LIGHTS		560
			1P-20	5	Α		6	1P-20	LC&D BLUE BOX	#	360
		ļ	1P-20	7		C	8	1P-20	IRRIGATION SYSTEM		360
			1P-20	9	Α		10	1P-20	RECEP	#10	360
		ļ	1P-20	11		C	12	1P-20	RECEP	I	360
			1P-20	13	Α		14	1P-20	SPACE		
		ļ	1P-20	15		C	16	1P-20			
			1P-20	17	Α	_	18	1P-20			
		l.	1P-20	19		С	20	1P-20			
			1P-20	21	Α	_	22	1P-20			
		00405	1P-20	23		С	24	1P-20	CDACE		
		SPACE		25	Α	_	26		SPACE		
				27 29		C	28 30				
				31	Α	С	32				
				33	Α	C	34		I I		
				35	^	С	36		I I		
		1		37	Α		38				
		i i		39	^	С	40				
				41	Α	Ŭ	42				
		'	Α					С	TOT. CONN. LOAD :	2.27	KVA
			1.0					1.3	@ LARGEST PHASE :	8.3	AMPS
			1045	2 4 5 1 4	LYSIS	FOD I	DA NIE	1.1.04			
		CONNECTED	LOAL	JANA	DES		AINE	LLSI	REMARKS		
LOAD T	YPE	(V.A.)	DIVERS	SITY	(V.A.						
KITCHE	N EQUIP	0	65	%		0					
RECEP	TACLES	720	*	%		720		* - FIRST	10,000 VA - 100%, REMA	INDER - 50%	
LIGHTIN	G	830	125	%	ľ	1038					
MISC EC	QUIP	720	100	%		720					
MECH E	QUIP	0	100	%		0					
	TOTAL	2270				2478			DESIGN AMPS:	10.3	

L - NEW CIRCUIT AND CIRCUIT BREAKER WIRED THROUGH AND CONTROLLED BY NEW LC&D BLUE BOX/PHOTOCELL.

ELECTRICAL SERVICE NOTES 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING FUSES AT MAIN SERVICE DISCONNECTS WITH INTERRUPTING CAPACITIES EQUAL TO OR GREATER THAN THE ELECTRICAL UTILITY SERVICE AVAILABLE SHORT CIRCUIT CURRENT. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING PANEL BOARD MAIN CIRCUIT BREAKERS WITH INTERRUPTING CAPACITIES EQUAL TO OR GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT OF THE MAIN SERVICE DISCONNECT FUSES. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL DOWNSTREAM PANEL BOARD CIRCUIT BREAKERS WITH INTERRUPTING CAPACITIES EQUAL TO OR GREATER THAN THE AVAILABLE SHORT

CIRCUIT CURRENT OF THEIR PANEL'S MAIN CIRCUIT BREAKER OR BE SERIES RATED FOR USE WITH THEIR 4. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ARC FAULT CURRENTS AND PROVIDING AND INSTALLING ARC

# ELECTRICAL POWER PLAN NOTES:

1. BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE TENANT IMPROVEMENT CONTRACT DOCUMENTS.

FAULT CURRENT LABELS ON ALL REQUIRED ELECTRICAL EQUIPMENT.

- 2. REFER TO DRAWING EP.1 FOR ELECTRICAL/PLUMBING GENERAL NOTES, DETAILS, AND
- 3. APPROXIMATE LOCATION OF TWO (2) NEW WEATHERPROOF NEMA 5-20IGR RECEPTACLES WITH LOCKING COVERS (BOTH INSTALLED +60" ABOVE GRADE). CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, ETC. WITH PROJECT ARCHITECT PRIOR TO STARTING ANY WORK.
- 4. APPROXIMATE LOCATION OF NEW 120/240 VOLT, SINGLE PHASE, 3 WIRE, 100 AMP ELECTRICAL SERVICE. REFER TO DRAWING EP1.1.02 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, ETC. WITH CITY OF HOUSTON, PROJECT ARCHITECT, AND
- FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, ETC. WITH CENTERPOINT ENERGY PRIOR TO STARTING ANY WORK.

ISSUE LOG				
NO.	DATE	DESCRIPTION		
	04.03.2015	100% DD		
	09.04.2015	50% CD		
	10.31.2016	75% CD		
	03.15.2017	95% CD		
	11.03.2017	100% CD		
^	12.18.2017	ISSUED FOR PERMIT		
1	01.29.2018	PERMIT COMMENT		

RESPONSE 09.28.2018 BID & CONSTRUCTION

asakura robinson asakura robinson company LLC Planning Urban Design Landscape Architecture 1902 Washington Ave., Suite. A www.asakurarobinson.net

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www.insightstructures.com | DOMINION INTERESTS INC.

CONSULTING ENGINEERS ELECTRICAL | 1919 Decatur ENGINEER | Houston TX 77007 P:713.626.7155

www.dominioninterests.com

EVERY SHEET MUST BE SEALED AND SIGNED BY AN ARCHITECT OR ENGINEER LICENSED IN TEXAS PRIOR TO PERMITTING AND CONSTRUCTION

# Parks Capital **Improvement** Program for City of Houston

General Services Department and Parks & Recreation Department

PARK NAME:

**DOW ELEMENTARY PARK** 1900 Kane Street Houston TX 77007 TIRZ #13



DEPARTMENT

REVIEWED:

PARKS PROGRAM MANAGER



DATE :	09-28-18
DII No :	14010-842-01
SCALE :	AS NOTED
DRAWN BY :	DII
CHECKED BY: _	DII

SHEET TITLE:

**ELECTRICAL POWER PLAN** 

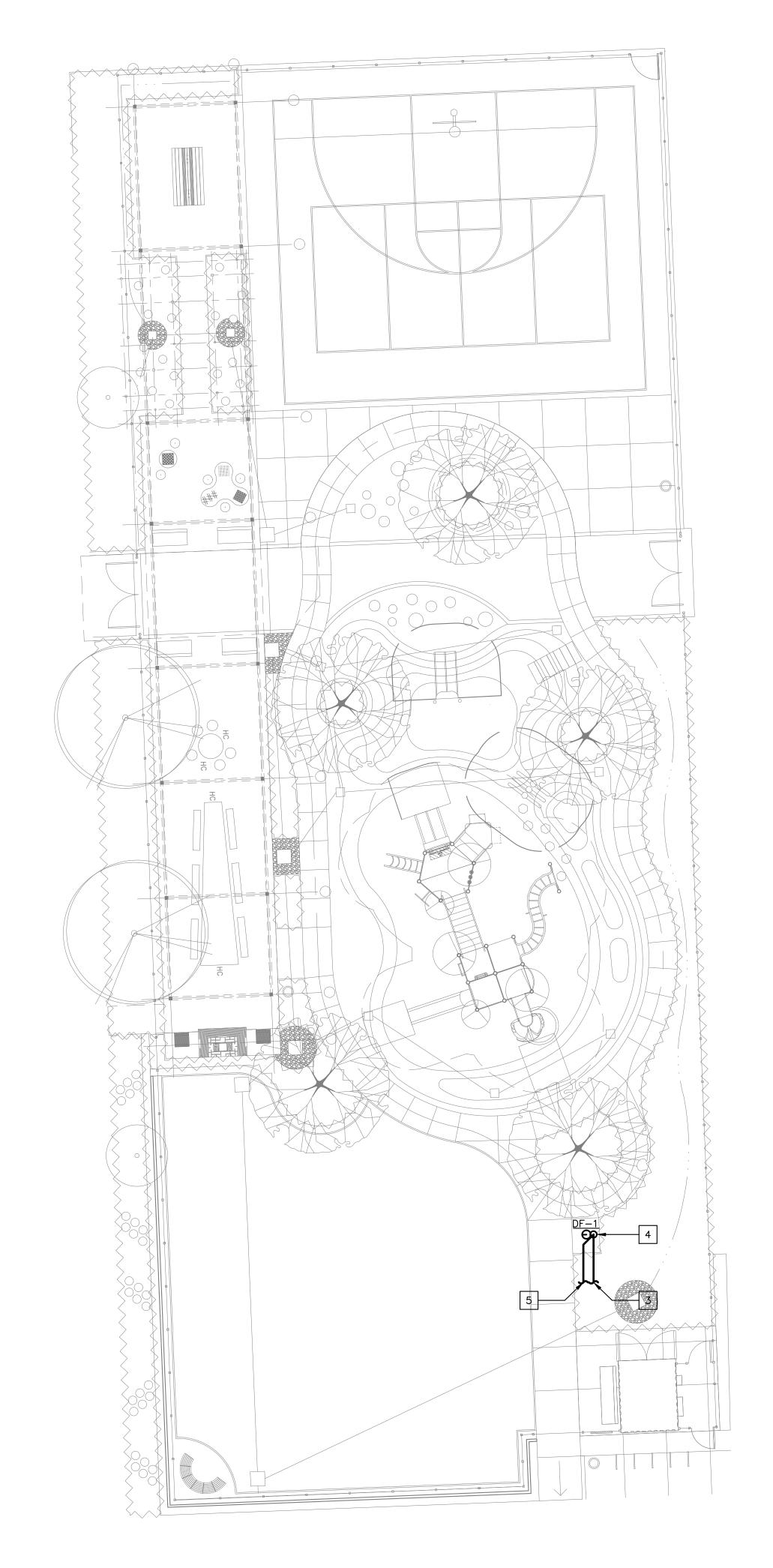
SHEET NO. :

**EP1.1** 

CITY DWG. NO.:

TEXAS REGISTRATION NO. F-6861

CENTERPOINT ENERGY PRIOR FINALIZING ANY PRICING OR STARTING ANY WORK. 5. APPROXIMATE LOCATION OF EXISTING ELECTRICAL UTILITY POLE. CONTRACTOR SHALL DOMINION INTERESTS, INC. CONSULTING ENGINEERS 2402 COMMONWEALTH STREET, SUITE 200 HOUSTON, TEXAS 77006 713.626.7155 / FAX: 832-699-2497



PLUMBING PIPING MATERIALS				
SYSTEM	PIPE MATERIAL	STANDARD		
WATER PIPE, OUTSIDE	SCHEDULE 80 PVC	ASTM D-1785-88		
WATER PIPE, INSIDE	TYPE L COPPER (NOTE 1)	ASTM B-88		
SANITARY SEWER, OUTSIDE	SCHEDULE 40 PVC	ASTM D-2665-88		
SANITARY SEWER, INSIDE	SCHEDULE 40 PVC (NOTE 2)	1APMO-15 9-80		
STORM SEWER, OUTSIDE	SDR 35 PLASTIC PIPIE	ASTM D-2665-88		
STORM SEWER, INSIDE	SCHEDULE 40 PVC (NOTE 2)	1APMO-15 9-80		
NATURAL GAS, OUTSIDE	SCHEDULE 40 BLACK STEEL	ASTM A-53 (NOTE 3)		
NATURAL GAS, INSIDE	SCHEDULE 40 BLACK STEEL	ASTM A-53 (NOTE 3)		

### PLUMBING PIPING MATERIALS NOTES:

1. UNDERFLOOR WATER PIPING SHALL BE TYPE "K" COPPER WITHOUT JOINTS.

- 2. SANITARY AND STORM SEWER LINES ABOVE FLOOR AND WITHIN ENVIRONMENTAL RETURN AIR PLENUMS SHALL BE SERVICE WEIGHT CAST IRON (ANSI A.112.2.5.1).
- 3. NATURAL GAS PIPING 2" DIAMETER AND SMALLER MAY BE SCHEDULE 40 GALVANIZED STEEL.

PLUMBING PLAN NOTES:

- BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE TENANT IMPROVEMENT CONTRACT DOCUMENTS.
- 2. REFER TO DRAWING EP.1 FOR ELECTRICAL/PLUMBING GENERAL NOTES, DETAILS, AND LEGENDS.
- 3. APPROXIMATE LOCATION OF EXISTING DOMESTIC WATER METER, SHUT—OFF VALVE, CLEANOUT, DRYWELL, ETC. TO BE REUSED AND EXISTING DRINKING FOUNTAIN TO BE REMOVED. THE EXISTING COLD WATER AND WASTE LINE PIPING SERVING THE REMOVED DRINKING FOUNTAIN ARE INTENDED TO BE REUSED TO SERVE THE NEW DRINKING FOUNTAIN. CONTRACTOR SHALL INSTALL NEW BRICKS BELOW THE EXISTING DOMESTIC WATER METER BOX TO PREVENT IT FROM BEING "PUSHED" BELOW GRADE. CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATIONS, INSTALLATION DETAILS, ETC. WITH CITY OF HOUSTON, LANDSCAPE ARCHITECT, AND PROJECT ARCHITECT PRIOR TO STARTING ANY WORK.
- 4. APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN <u>DF-1</u>. TIE NEW BELOW GRADE 1/2" DOMESTIC COLD WATER PIPING TO NEAREST EXISTING BASE BUILDING DOMESTIC COLD WATER PIPING WITH SUFFICIENT SPARE CAPACITY. PROVIDE AND INSTALL NEW 1/2" SHUT-OFF VALVE TO PROVIDE ISOLATION FOR FUTURE MAINTENANCE. CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, LOCATION OF EXISTING BASE BUILDING DOMESTIC COLD WATER PIPING, ETC. WITH PROJECT ARCHITECT AND BASE BUILDING ENGINEER PRIOR TO STARTING ANY WORK.
- 5. TIE NEW BELOW GRADE 2" SANITARY SEWER PIPING TO NEAREST EXISTING BASE BUILDING SANITARY SEWER PIPING WITH SUFFICIENT SPARE CAPACITY. CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS, DIMENSIONED LOCATION, INSTALLATION DETAILS, LOCATION OF EXISTING BASE BUILDING SANITARY SEWER PIPING, ETC. WITH PROJECT ARCHITECT AND BASE BUILDING ENGINEER PRIOR TO STARTING ANY WORK.

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SEAL:

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# Parks Capital **Improvement** Program for City of Houston General Services Department and Parks & Recreation Department

PARK NAME:

DOW ELEMENTARY PARK 1900 Kane Street Houston TX 77007 TIRZ #13



REVIEWED:

PARKS PROGRAM MANAGER HERMANN PARK CONSERVANCY



DATE :	09-28-18
DII No :	14010-842-01
SCALE :	AS NOTED
DRAWN BY :	DII
CHECKED BY : _	DII

SHEET TITLE:

**PLUMBING PLAN** 

SHEET NO. :

DOMINION INTERESTS, INC.

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