

WATER EMERGENCY RESPONSE ORGANIZATION OF ORANGE COUNTY SOUTH EMERGENCY OPERATIONS CENTER

26081 VIA PERA
MISSION VIEJO, CA 92691

SUPPORT AND BRACING OF NON-STRUCTURAL ELEMENTS

PROJECT DESCRIPTION

THIS PROJECT IS INTENDED TO IMPROVE THE SEISMIC PERFORMANCE OF THE CEILING SYSTEM AT WEROC'S SOUTH EMERGENCY OPERATIONS CENTER IN MISSION VIEJO. THE CEILING WILL BE REPLACED WITH A CEILING THAT IS COMPLIANT WITH ESSENTIAL SERVICES FACILITIES REQUIREMENTS. THE PROJECT ALSO INCLUDES THE ADDITION OF PARTITION BRACES, WATER HEATER BRACING AND ACCESSIBILITY UPGRADES.

IT IS NOT INTENDED OR REQUIRED TO UPGRADE THE ENTIRE BUILDING OR TO UPGRADE THE BUILDING GENERALLY FOR CURRENT CODE OR ESSENTIAL SERVICES FACILITY PERFORMANCE.

PROJECT DATA

PROJECT ADDRESS: 26081 VIA PERA
MISSION VIEJO, CA 92691

APN: 809-521-03
YEAR BUILT: 1981
STORIES: 1
CONSTRUCTION TYPE: I-B
OCCUPANCY: B
AREA: 2400 S.F. (TOTAL)
1275 S.F. (OFFICE AREA)

OCCUPANT LOAD:
OFFICE: 635 S.F./100 = 7
BOARD ROOM: 640 S.F./15 = 43/50

SCOPE OF WORK

- THE SCOPE OF WORK FOR THIS PROJECT CONSISTS OF THE FOLLOWING ITEMS:
1. REMOVE AND REPLACE THE CEILING WITH A CEILING HAVING SUPPORTS AND BRACING THAT COMPLY WITH THOSE FOR AN ESSENTIAL FACILITY.
 2. RESUPPORT THE EXISTING LIGHTS AND MECHANICAL REGISTERS WITH SUPPORTS AND BRACING COMPLYING WITH THOSE FOR AN ESSENTIAL FACILITY.
 3. PROVIDE ADDITIONAL PARTITION BRACING.
 4. PROVIDE ONE ACCESSIBLE PARKING STALL AND PATH OF TRAVEL TO THE BUILDING ENTRANCE FOR CODE COMPLIANCE.

APPLICABLE CODES

2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2014 NEC)
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
2016 TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
AMERICANS WITH DISABILITIES ACT

CONTACTS

OWNER:
EL TORO WATER DISTRICT
24251 LOS ALISOS BLVD.
LAKE FOREST, CA 92630
CONTACT: DENNIS CAFFERTY, GENERAL MANAGER
PHONE: 949-837-7050 x 223

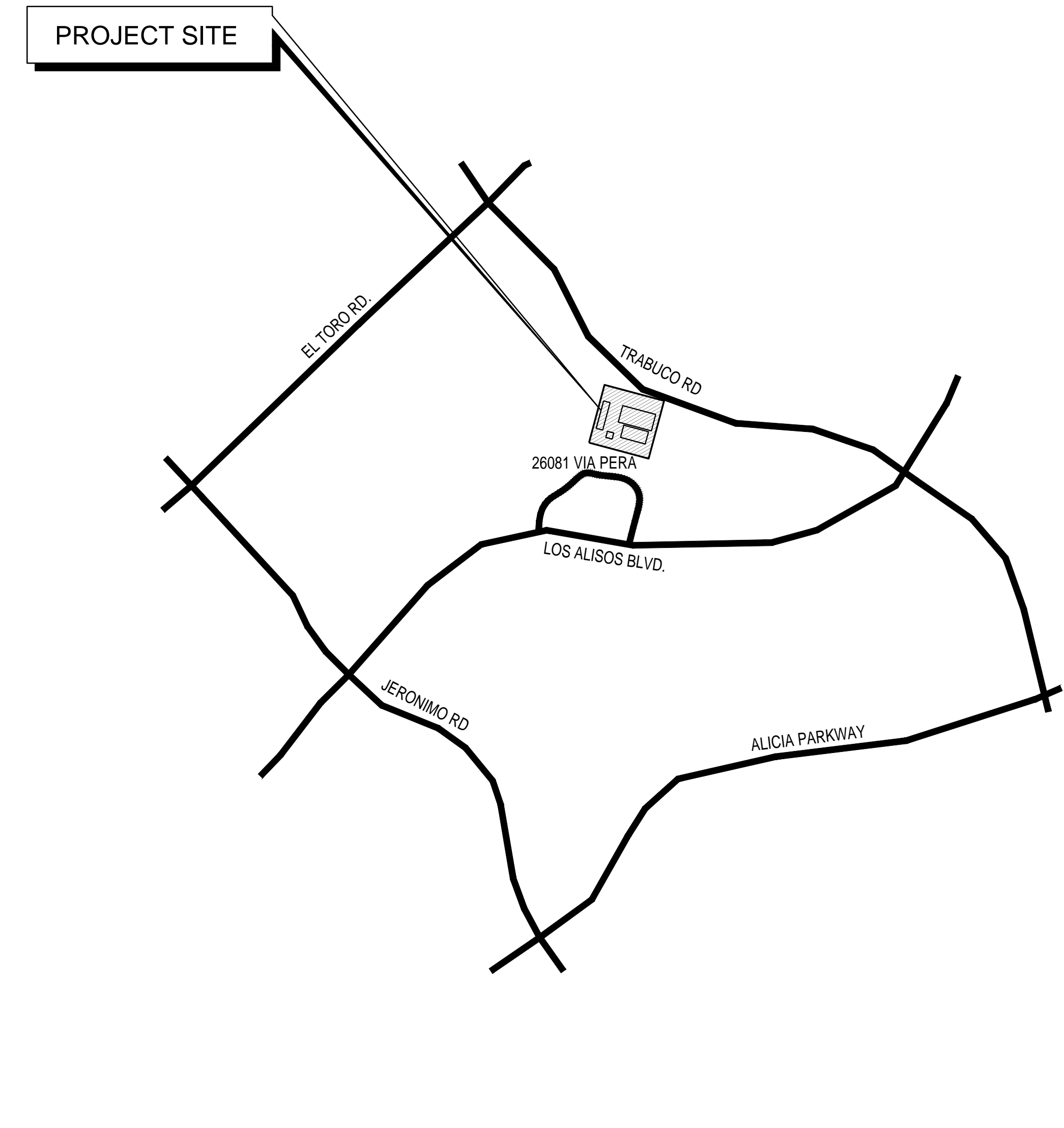
LESSEE:
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 WARD STREET
FOUNTAIN VALLEY, CA 92708
CONTACT: KELLY HUBBARD, EMERGENCY SERVICE MANAGER
PHONE: 714-593-5010

STRUCTURAL ENGINEER:
IDS GROUP, INC.
1 PETERS CANYON ROAD, SUITE 130
IRVINE, CA 92606
PHONE: (949) 387-8500

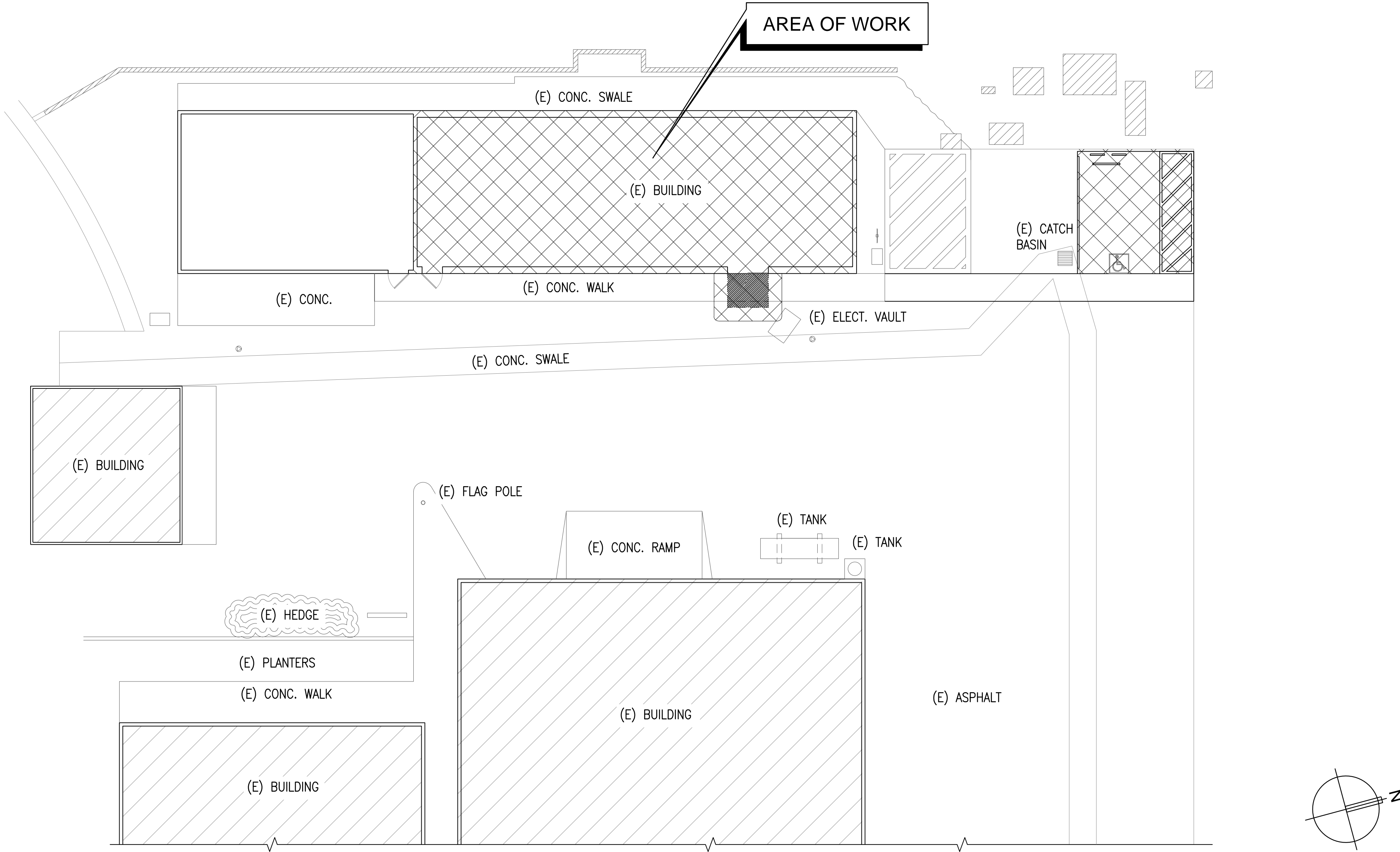
SHEET INDEX

- 0.0 COVER SHEET
0.1 PARTIAL SITE PLAN
0.2 ACCESSIBILITY DETAILS
1.0 GENERAL NOTES
2.1 FLOOR PLAN
2.2 REFLECTED CEILING AND ROOF FRAMING
3.0 DETAILS
4.0 PHOTOS

VICINITY MAP



SITE PLAN



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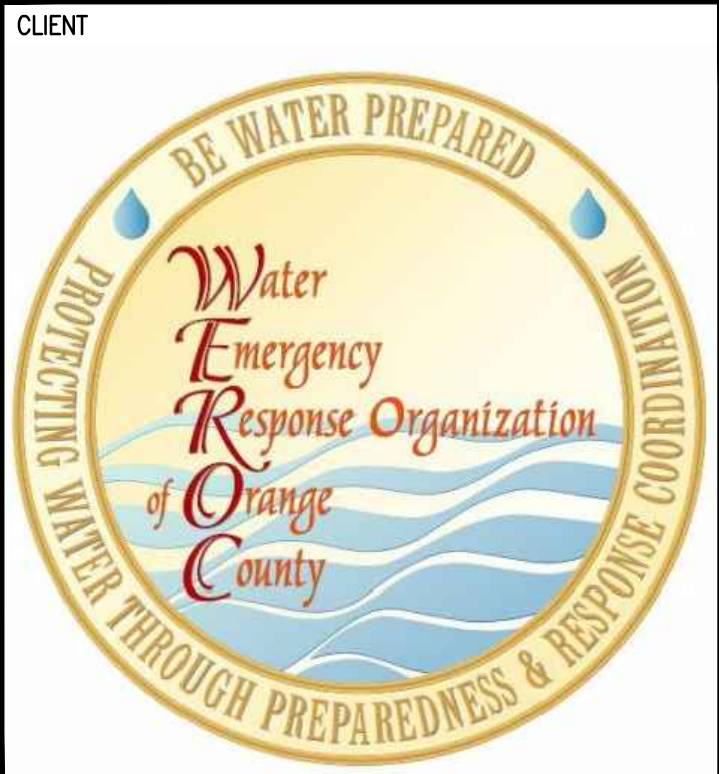
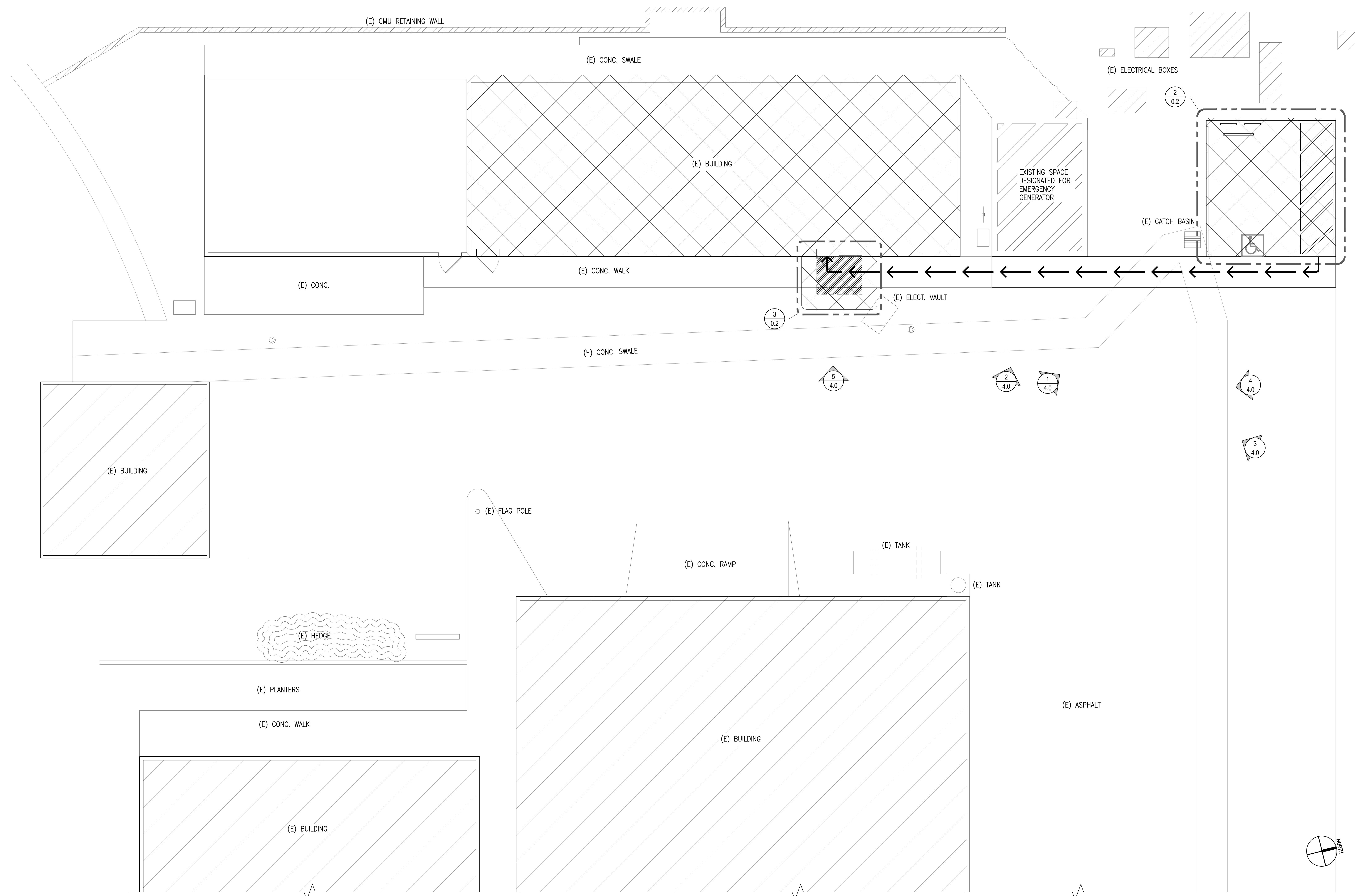


REV.	DESCRIPTION	DATE
1	PLAN CHECK 1ST REVIEW	4/11/18


PROJECT NO.	17S020.01
PRINT DATE	-
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CHECKED BY	D.P

SHEET TITLE	COVER SHEET
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SHEET NUMBER	0.0
SHEET NO.	OF XXX



ENGINEER/ARCHITECT

 **IDS**

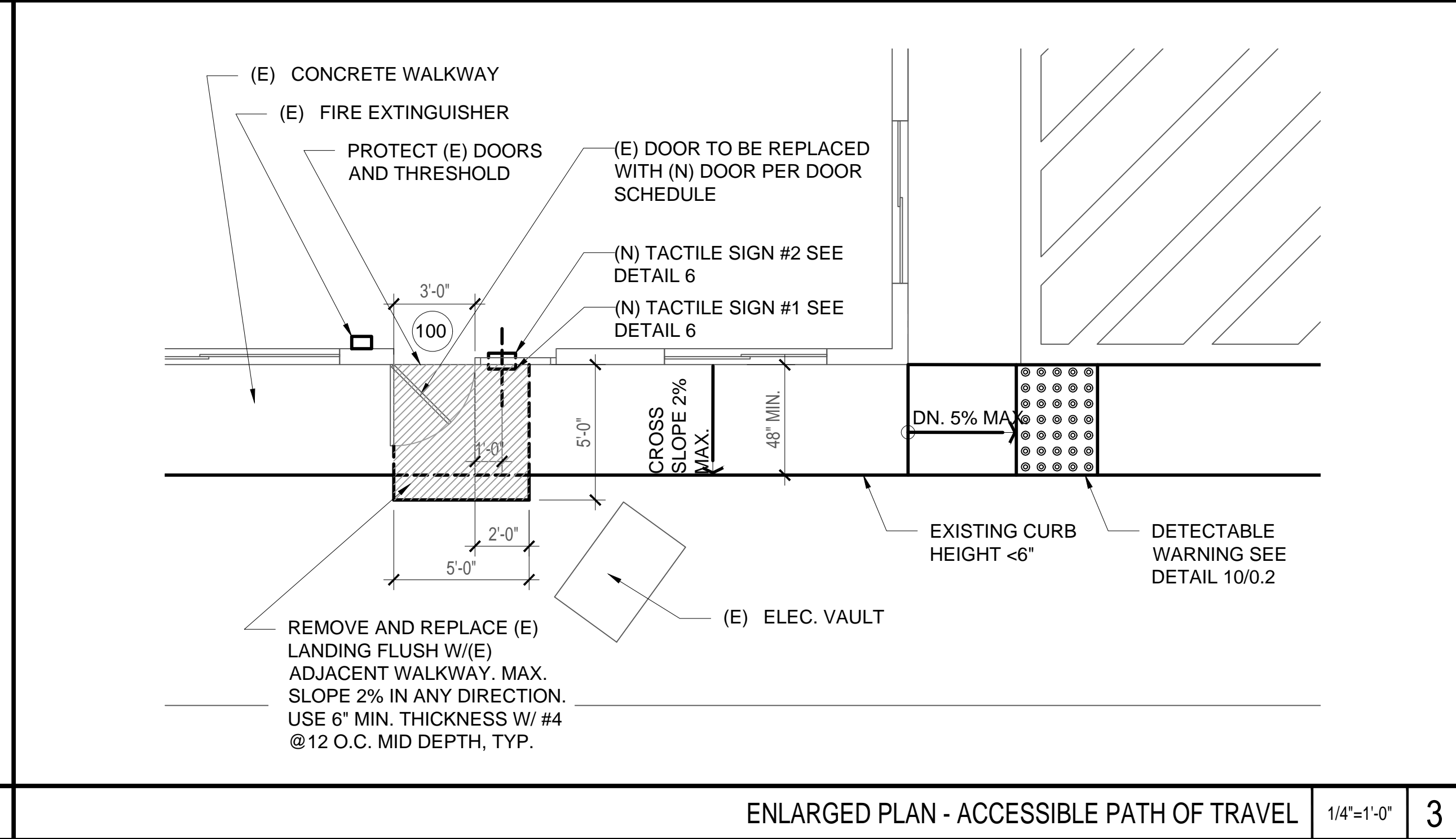
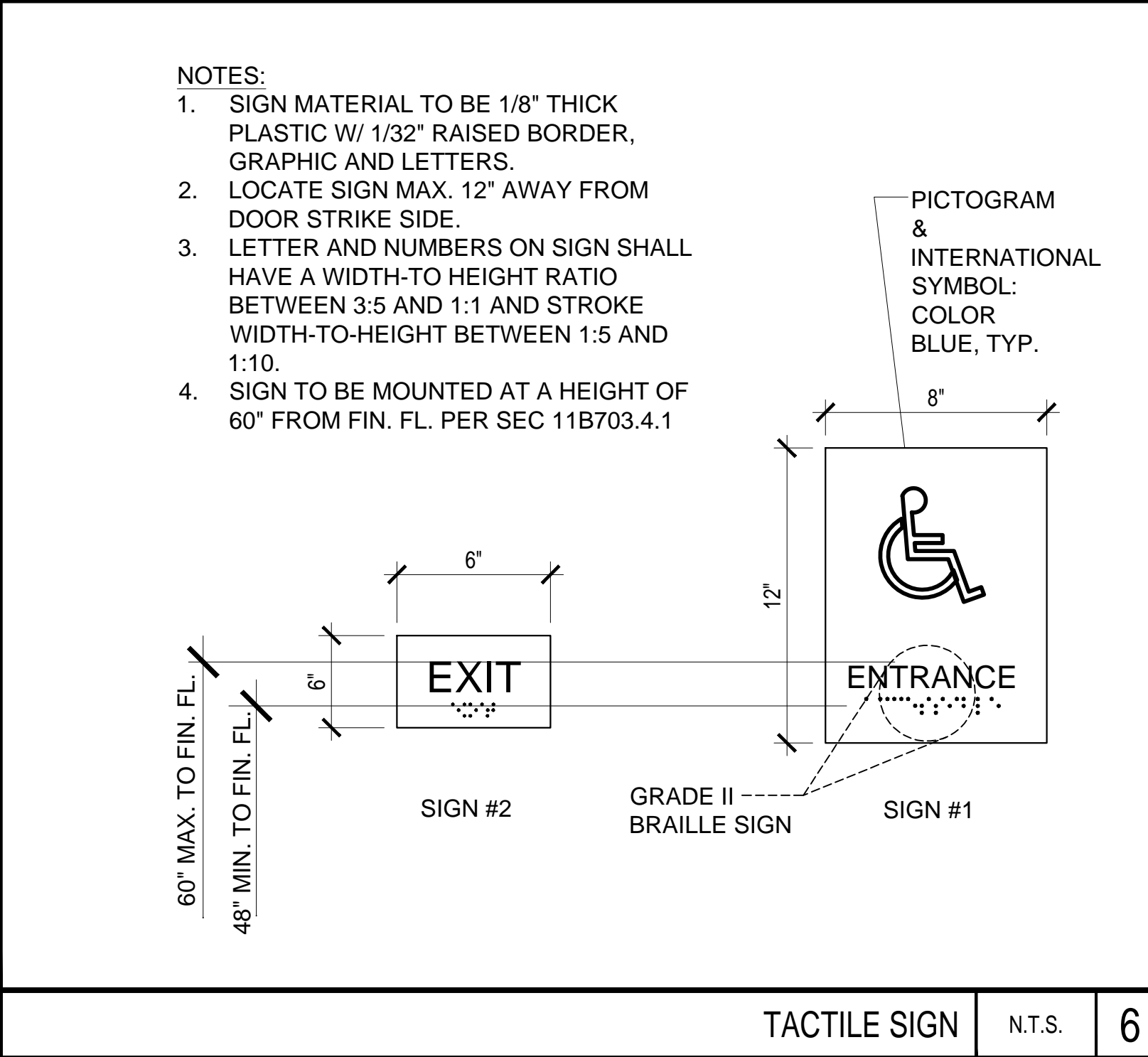
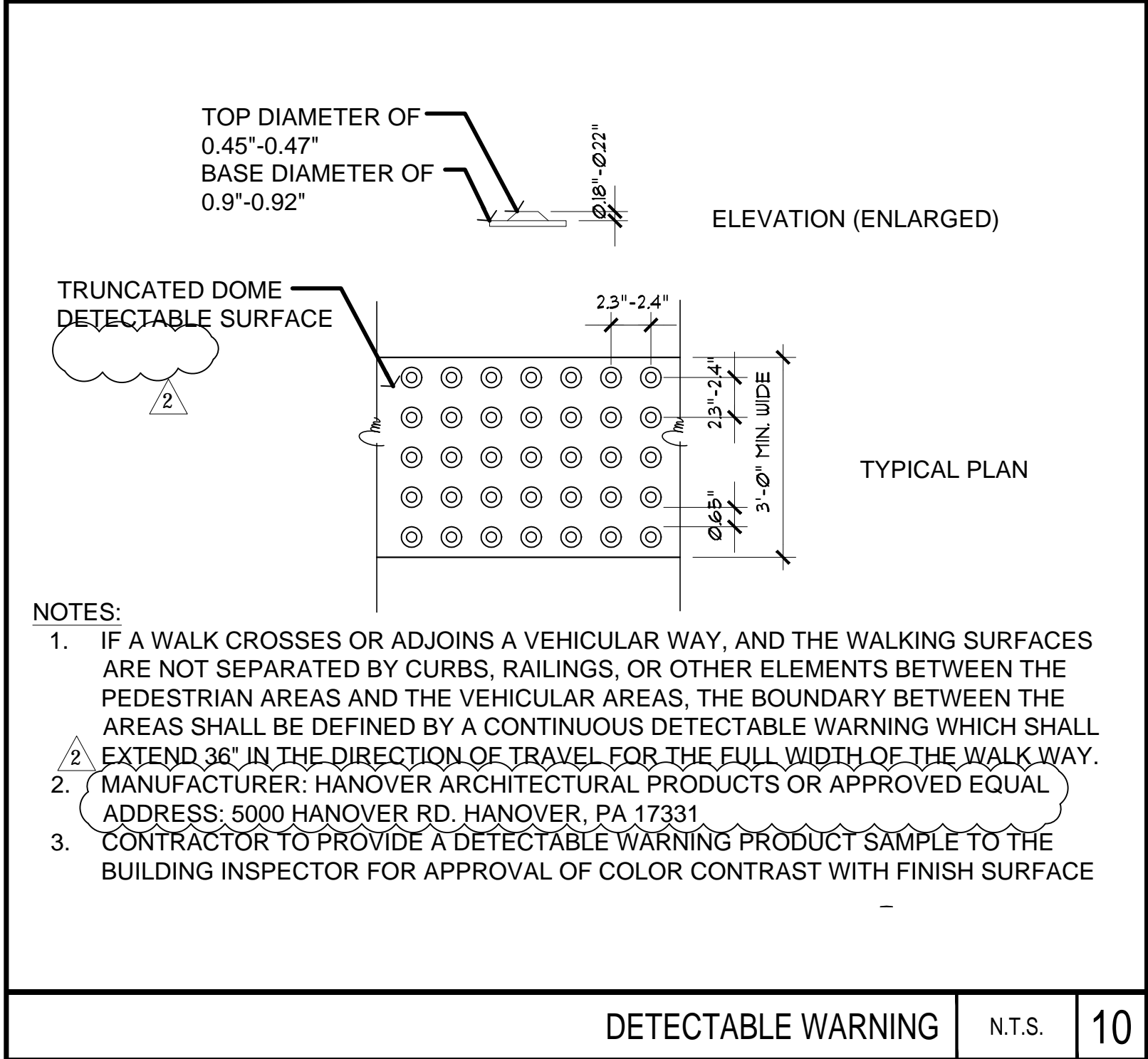
IDS GROUP

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IRVINE, CA 92606
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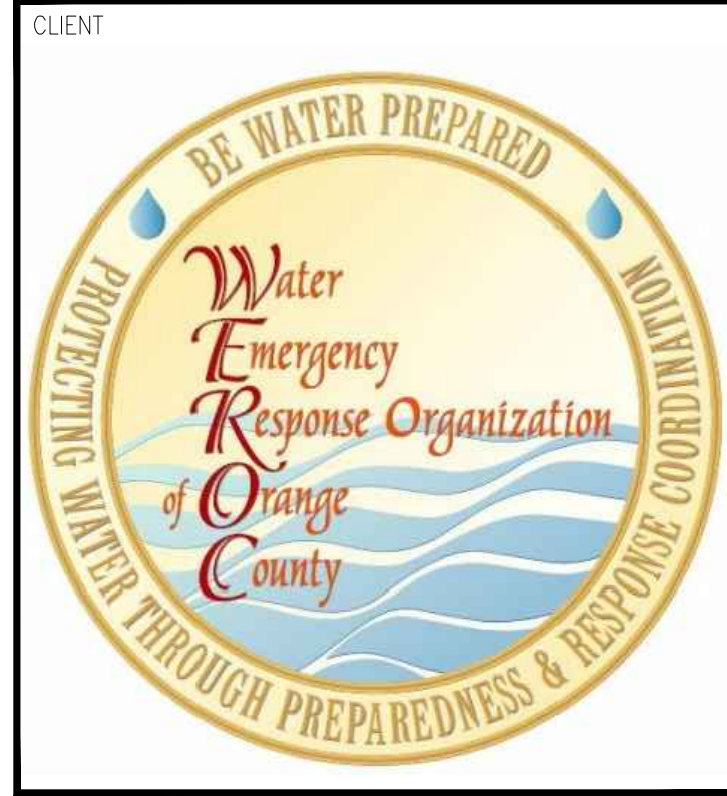
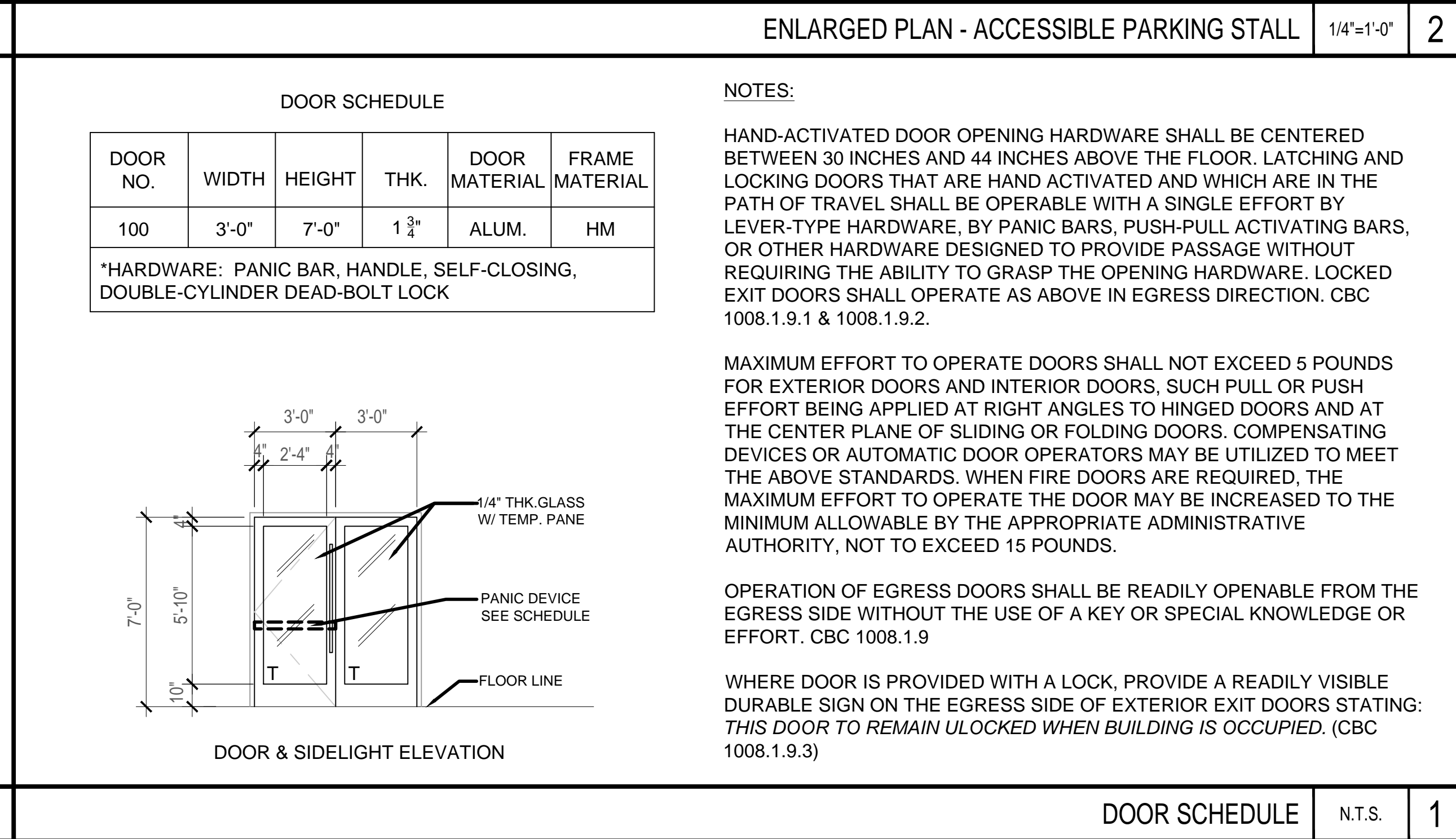
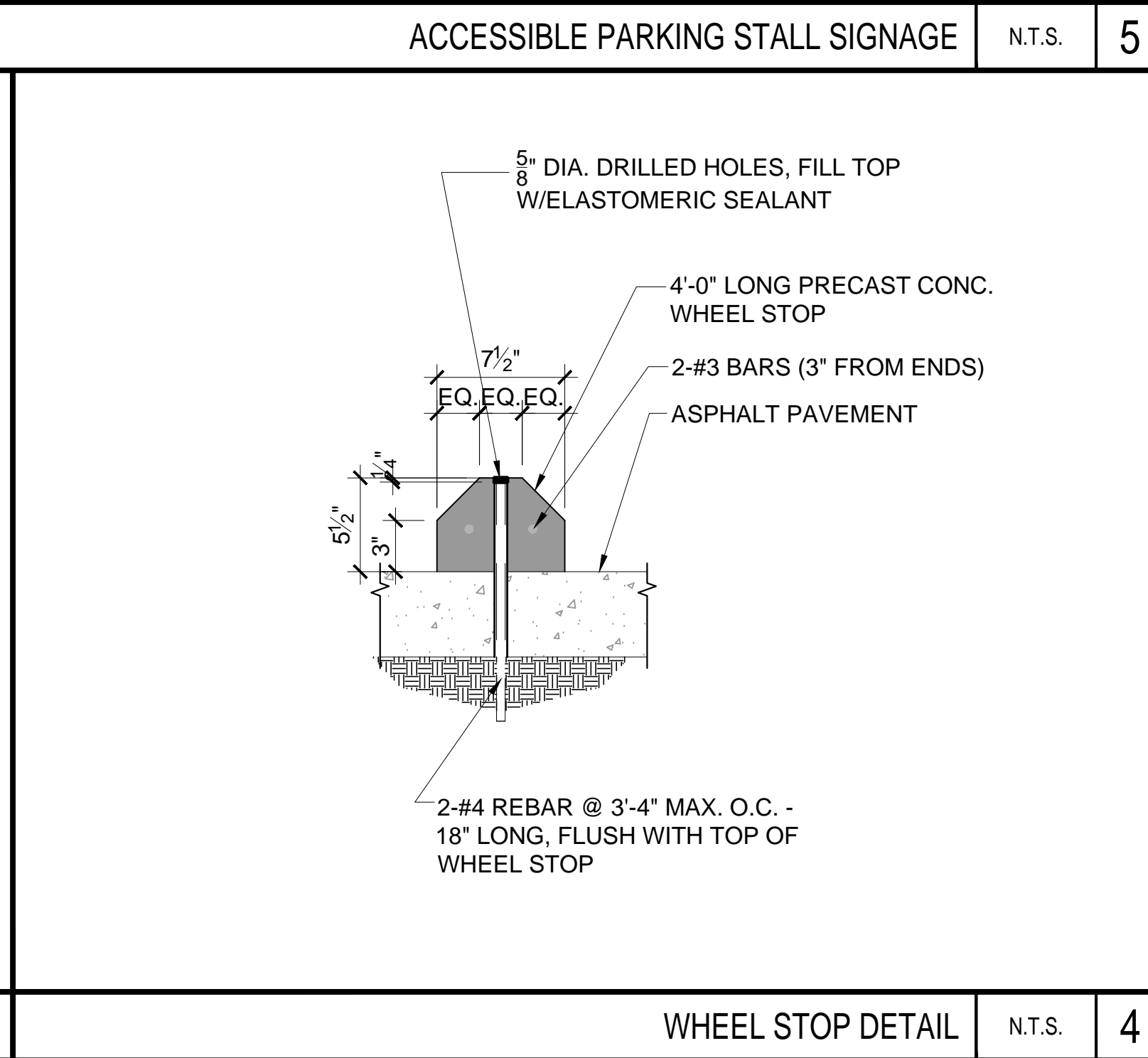
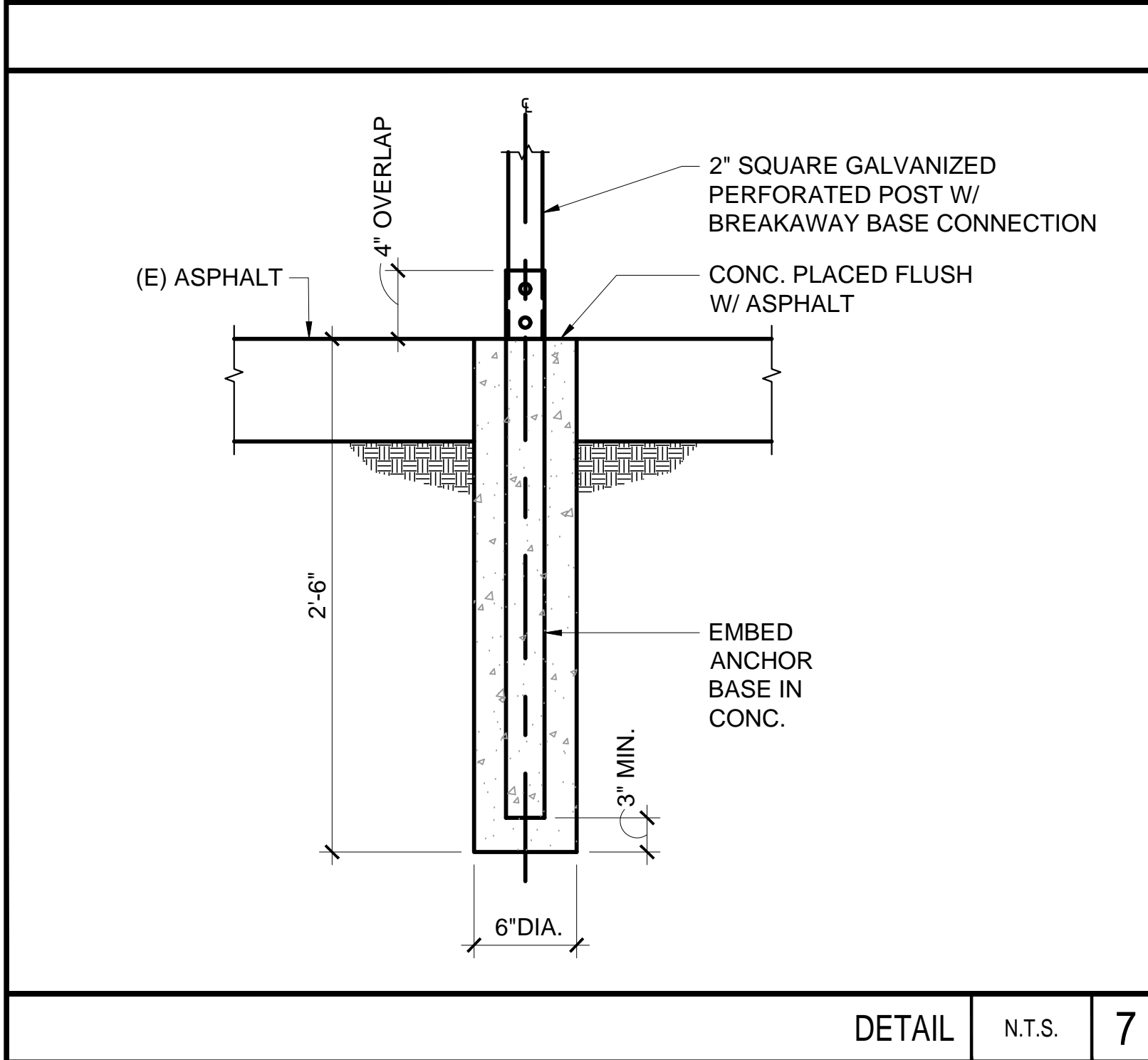
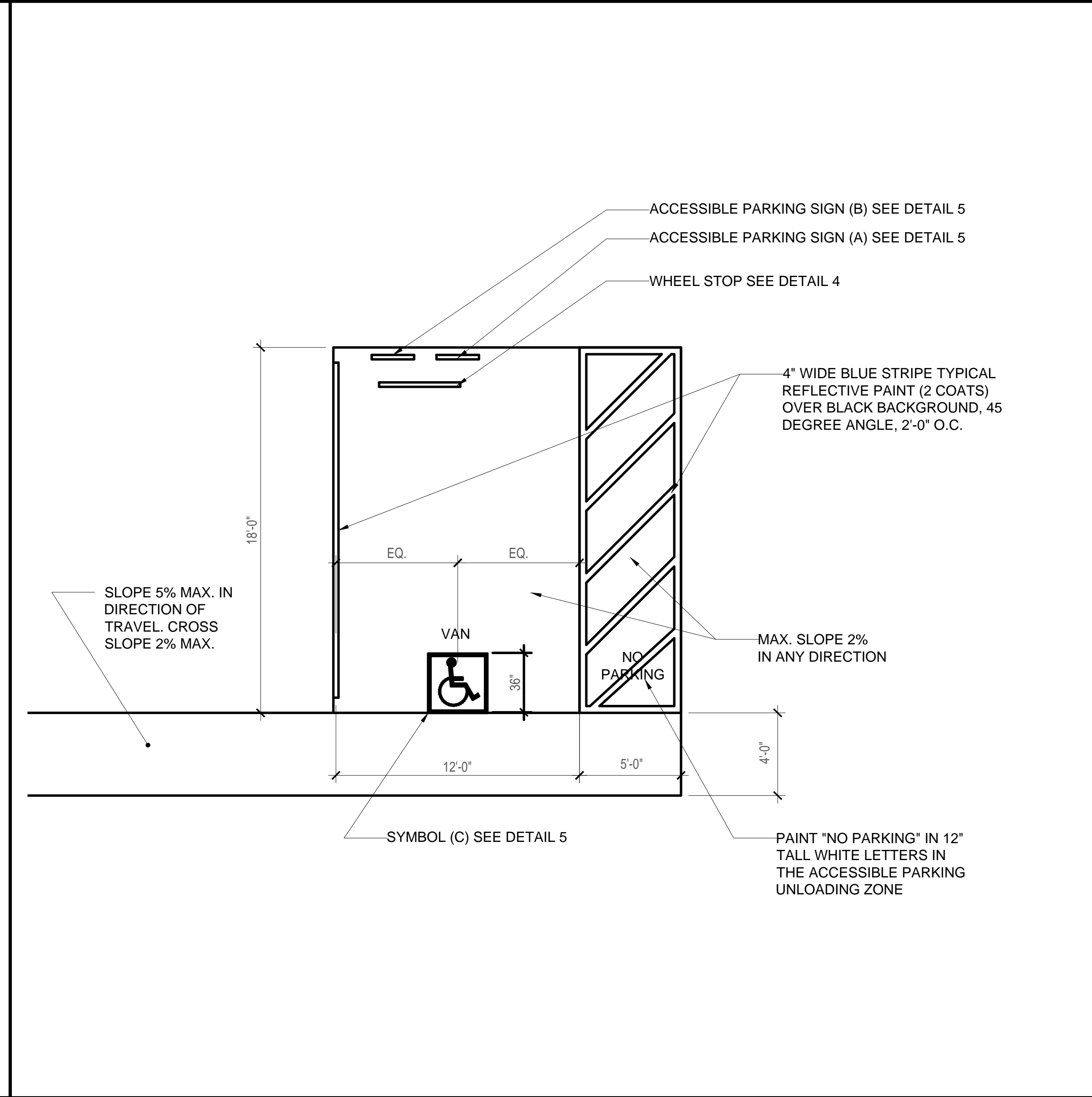
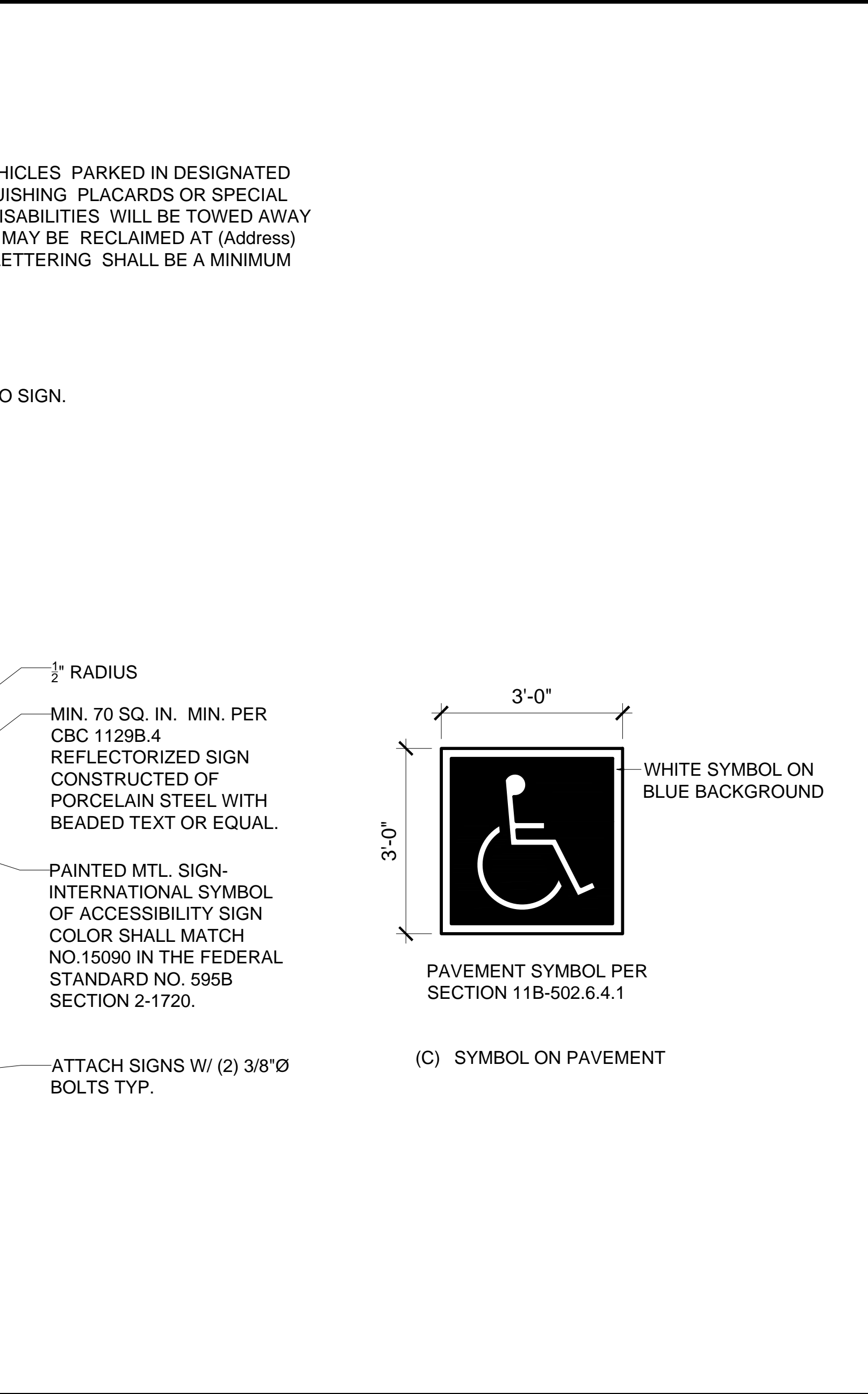
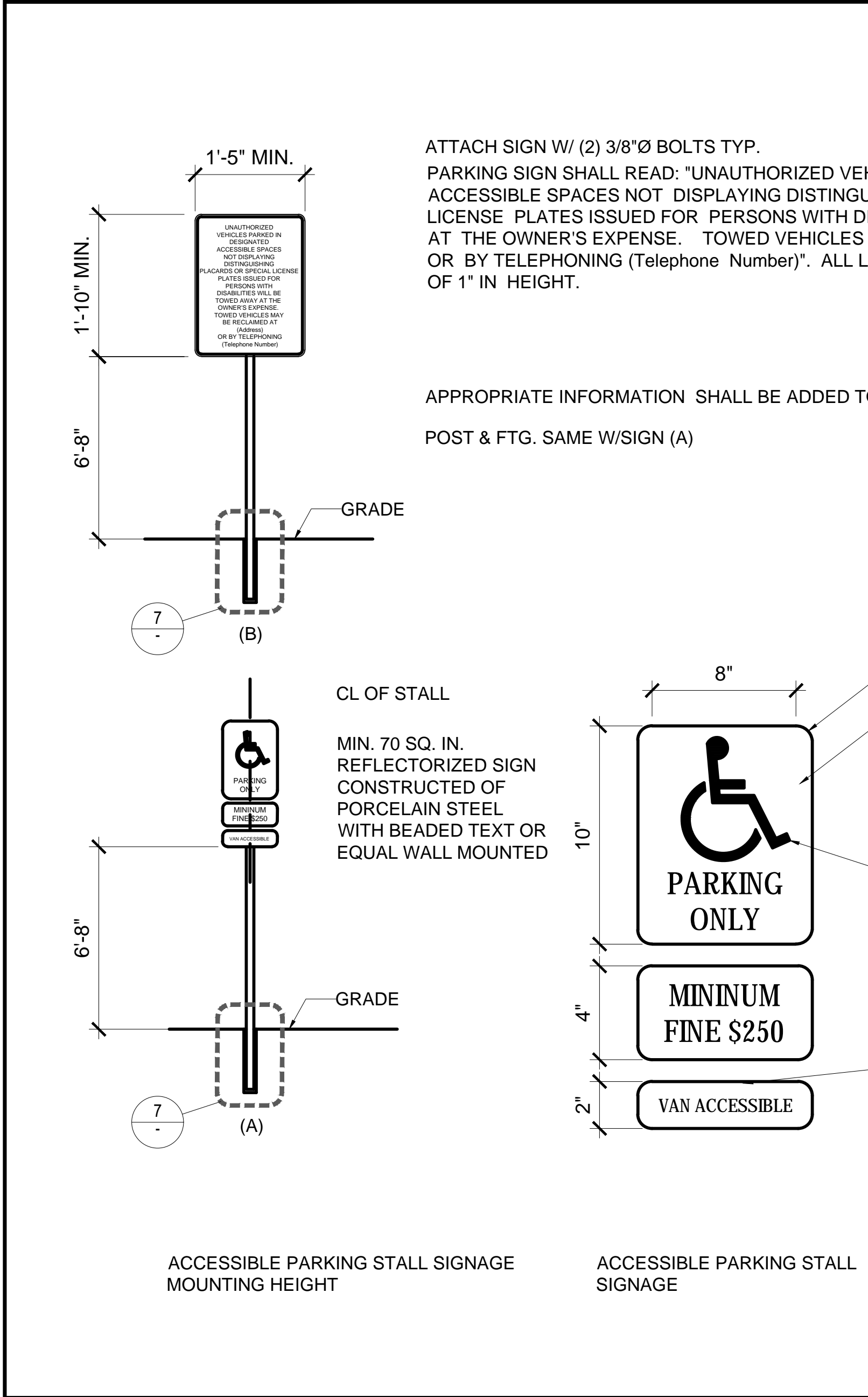
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GENERAL NOTES:

- ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING, AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, WALLS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDING ADJOINING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDINGS SHOULD BE PROTECTED.
- SURFACE SLOPES OF ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1/4" INCH PER FOOT IN ANY DIRECTION (CBC 1109A.8.3).
- GRADE AND DEVELOP THE SITE SO THAT ACCESSIBLE ROUTES OF TRAVEL ARE PROVIDED FROM ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES TO THE ACCESSIBLE ENTRANCES THEY SERVE. (CBC 1110A.1).
- ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/4" INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (5 PERCENT SLOPE). CHANGES IN LEVEL NOT EXCEEDING 1/4" INCH MAY BE VERTICAL (CBC 111A.1 AND CBC 1121.1).
- CHANGES IN LEVEL GREATER THAN 1/2" INCH SHALL BE MADE BY MEANS OF A SLOPED SURFACE NOT GREATER THAN 1 UNIT VERTICAL IN 20 UNITS HORIZONTAL (5 PERCENT SLOPE), OR A CURB RAMP, RAMP, ELEVATOR OR SPECIAL ACCESS LIFT.
- AT LEAST ONE ACCESSIBLE ROUTE OF TRAVEL IS PROVIDED. ALL ROUTES SHALL BE ACCESSIBLE (CBC 111A.2 AND CBC 1121A.2).
- NO ABRUPT CHANGES IN ELEVATIONS ALONG PATH OF TRAVEL SOVN. THE SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5 PERCENT.
- AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL, THERE SHALL BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS SHALL INDICATE THE DIRECTION TO ACCESSIBLE BUILDING ENTRANCES AND FACILITIES. SEE DETAIL 6
- ACCESSIBLE PARKING SPACES SHALL BE PROVIDED WITH SIGNAGE AS REQUIRED BY CBC SECTION 1109A.8. SUCH SIGNAGE SHALL NOT BE BLOCKED FROM VIEW BY A VEHICLE PARKED IN THE SPACE. SEE DETAIL 5.
- THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NO BE WITHIN TEN FEET OF ANY POWER LINES- WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.



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ENGINEER/ARCHITECT

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IRVINE, CA 92606
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STAMP

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LICENSED ARCHITECT
JOSEPH BIER
No. 5573
Exp. 12-31-19
STATE OF CALIFORNIA

ISSUE	REV.	DESCRIPTION	DATE
	1	PLAN CHECK 1ST REVIEW	4/11/18
	2	PLAN CHECK 2ND REVIEW	5/14/18

KEY PLAN

PROJECT NO. 175020.01

PRINT DATE

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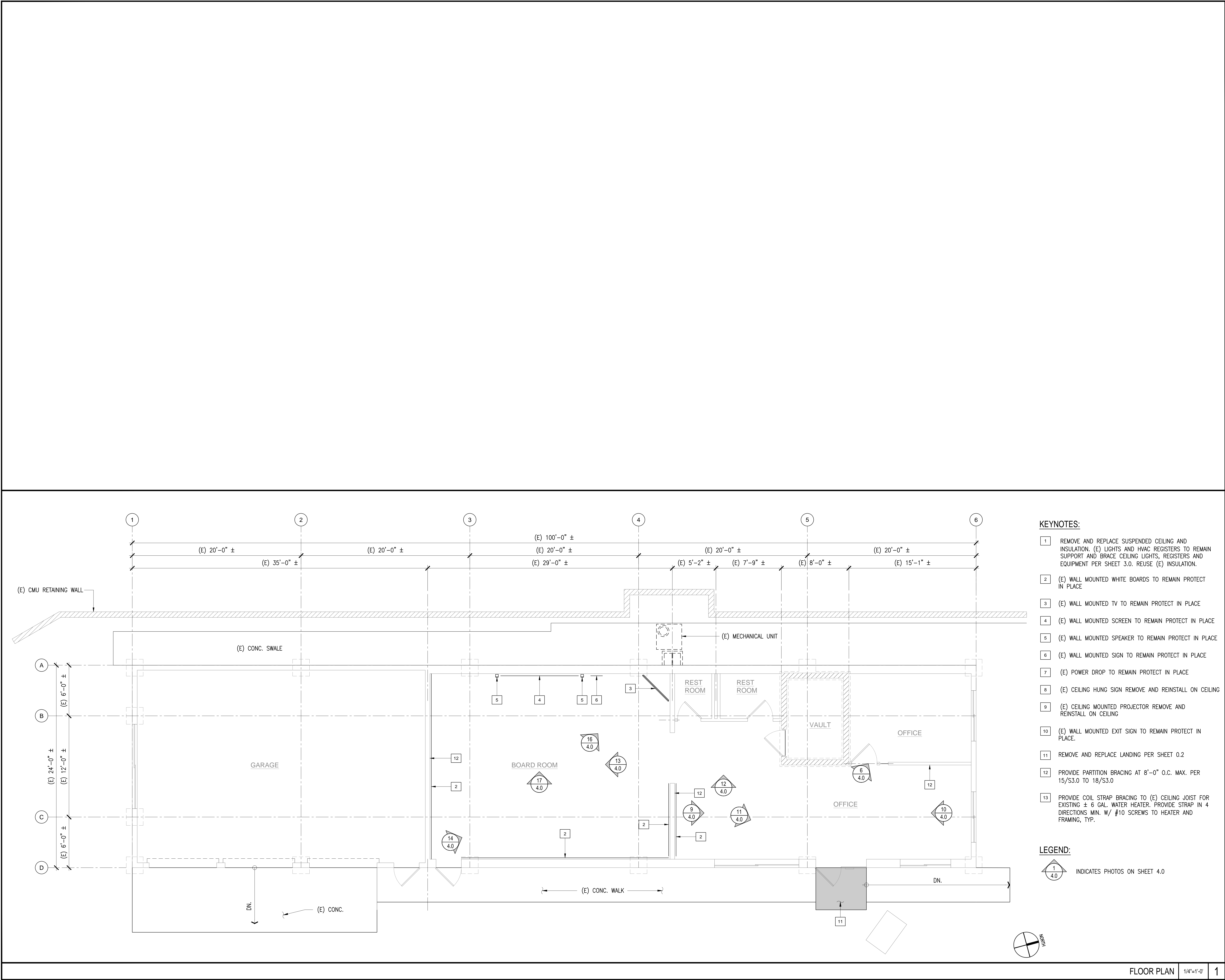
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ACCESSIBILITY DETAILS

SHEET NUMBER

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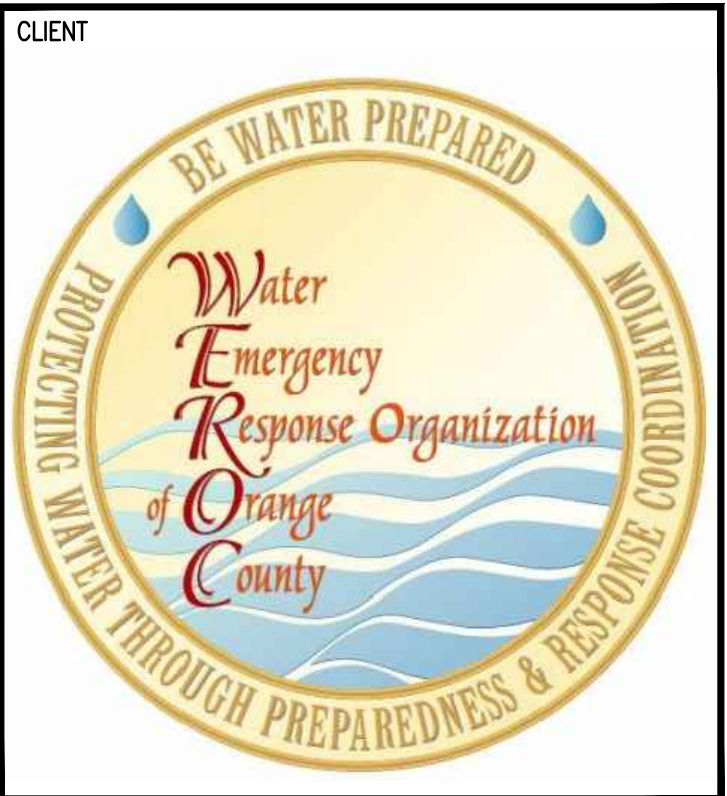
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- KEYNOTES:**
- 1 REMOVE AND REPLACE SUSPENDED CEILING AND INSULATION. (E) LIGHTS AND HVAC REGISTERS TO REMAIN SUPPORT AND BRACE CEILING LIGHTS, REGISTERS AND EQUIPMENT PER SHEET 3.0. REUSE (E) INSULATION.
 - 2 (E) WALL MOUNTED WHITE BOARDS TO REMAIN PROTECT IN PLACE
 - 3 (E) WALL MOUNTED TV TO REMAIN PROTECT IN PLACE
 - 4 (E) WALL MOUNTED SCREEN TO REMAIN PROTECT IN PLACE
 - 5 (E) WALL MOUNTED SPEAKER TO REMAIN PROTECT IN PLACE
 - 6 (E) WALL MOUNTED SIGN TO REMAIN PROTECT IN PLACE
 - 7 (E) POWER DROP TO REMAIN PROTECT IN PLACE
 - 8 (E) CEILING HUNG SIGN REMOVE AND REINSTALL ON CEILING
 - 9 (E) CEILING MOUNTED PROJECTOR REMOVE AND REINSTALL ON CEILING
 - 10 (E) WALL MOUNTED EXIT SIGN TO REMAIN PROTECT IN PLACE.
 - 11 REMOVE AND REPLACE LANDING PER SHEET 0.2
 - 12 PROVIDE PARTITION BRACING AT 8'-0" O.C. MAX. PER 15/S3.0 TO 18/S3.0
 - 13 PROVIDE COIL STRAP BRACING TO (E) CEILING JOIST FOR EXISTING ± 6 GAL. WATER HEATER. PROVIDE STRAP IN 4 DIRECTIONS MIN. W/ #10 SCREWS TO HEATER AND FRAMING, TYP.

LEGEND:

1 4.0 INDICATES PHOTOS ON SHEET 4.0



CLIENT

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REGISTERED PROFESSIONAL ENGINEER
L. HILL
No. 3680
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 02-27-2018

ISSUE		
REV.	DESCRIPTION	DATE
1	PLAN CHECK 1ST REVIEW	4/11/18

KEY PLAN	

PROJECT NO.	17S020.01
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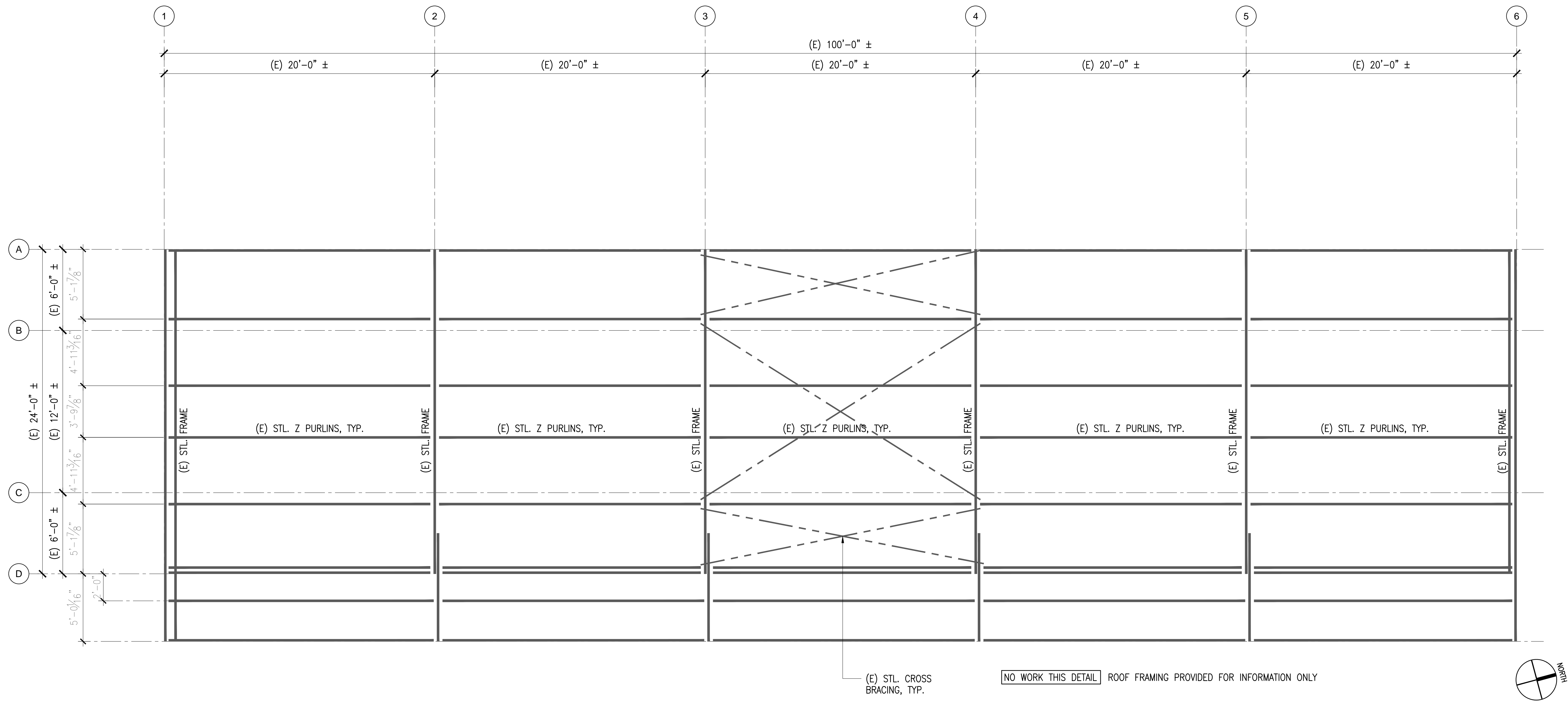
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FLOOR PLAN

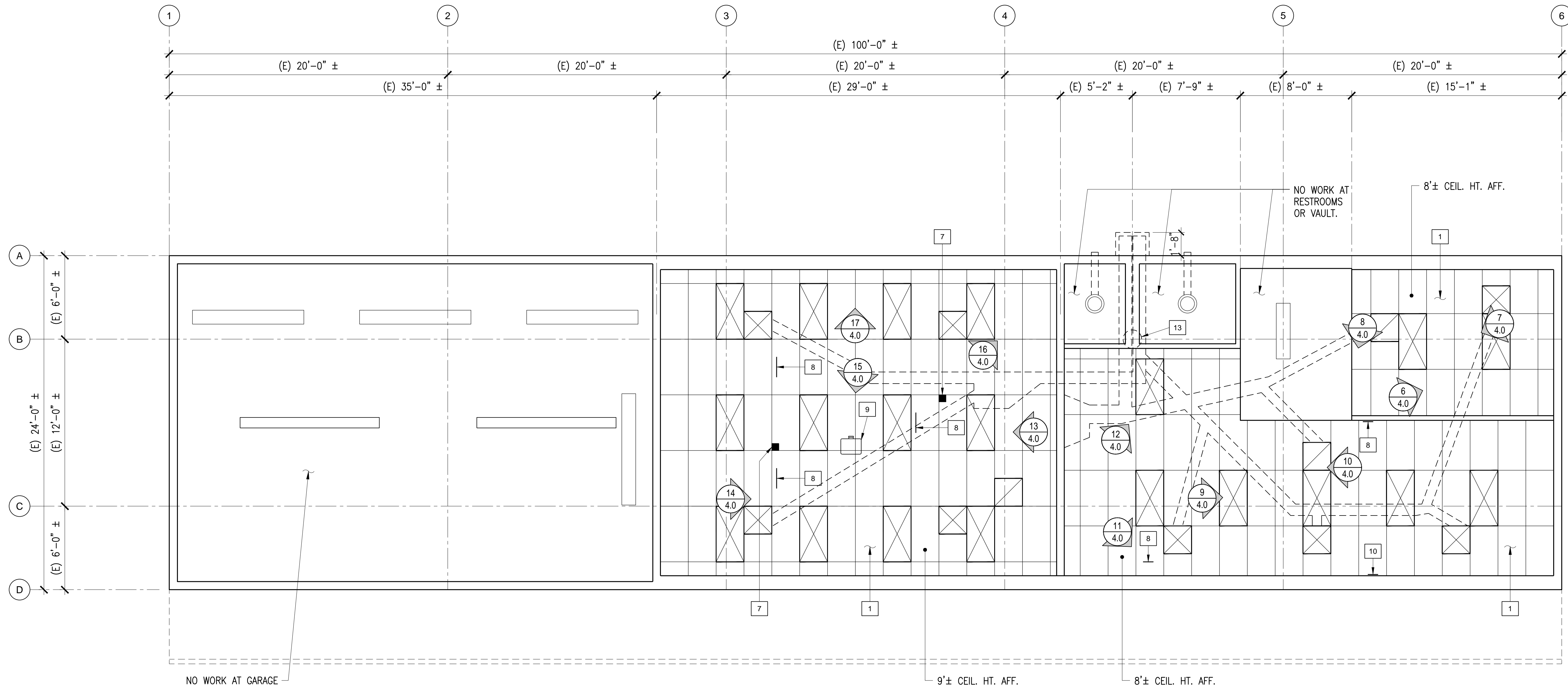
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SHEET NO. OF XXX



ROOF FRAMING PLAN 1/4"=1'-0" 2

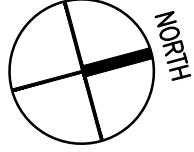


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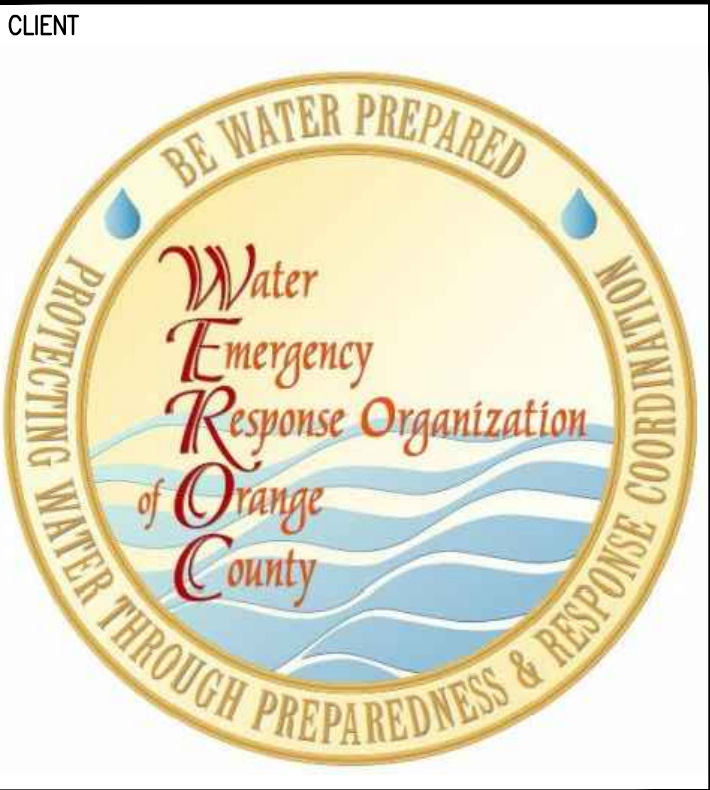
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LEGEND:

INDICATES PHOTOS ON SHEET 4.0



REFLECTED CEILING PLAN 1/4"=1'-0" 1



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No. 3680
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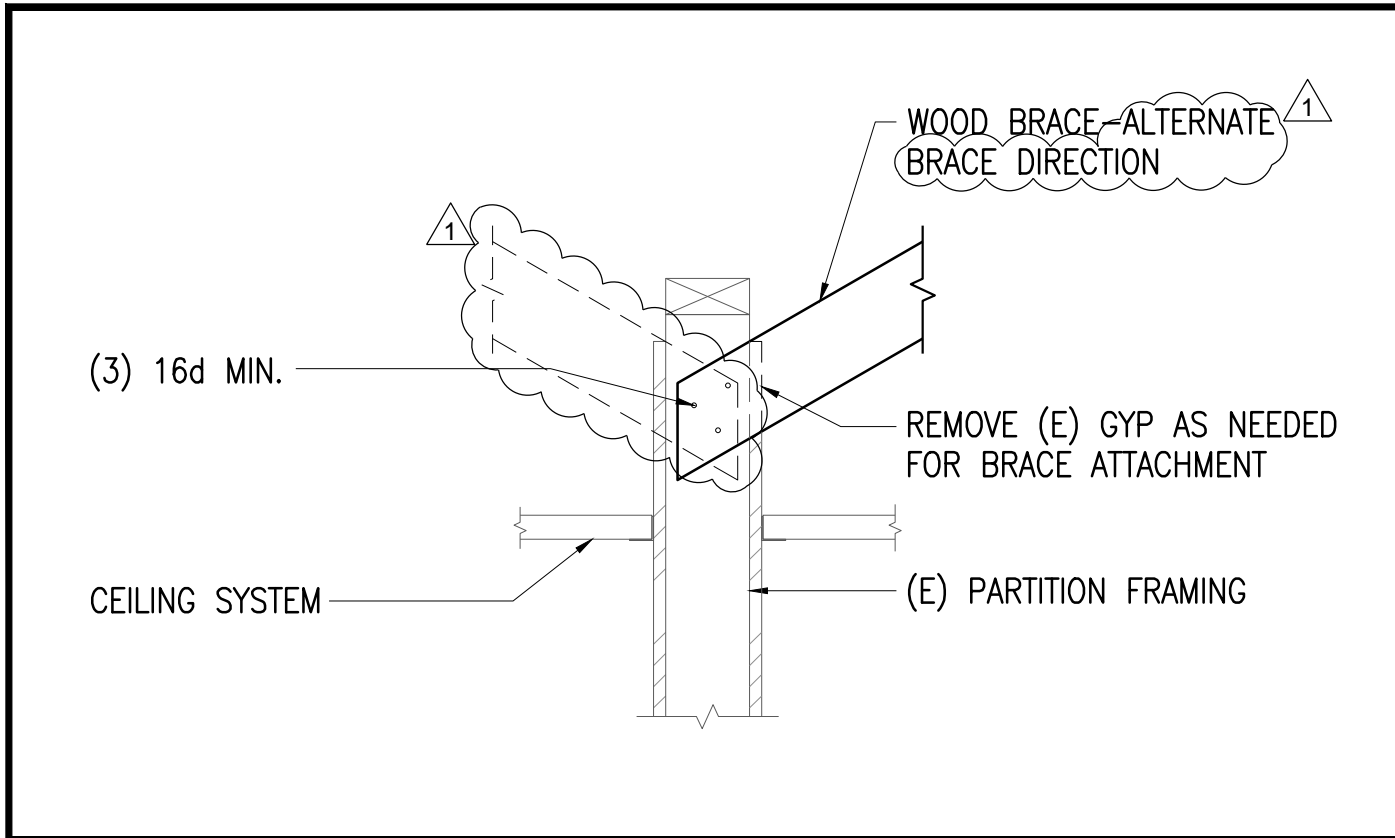
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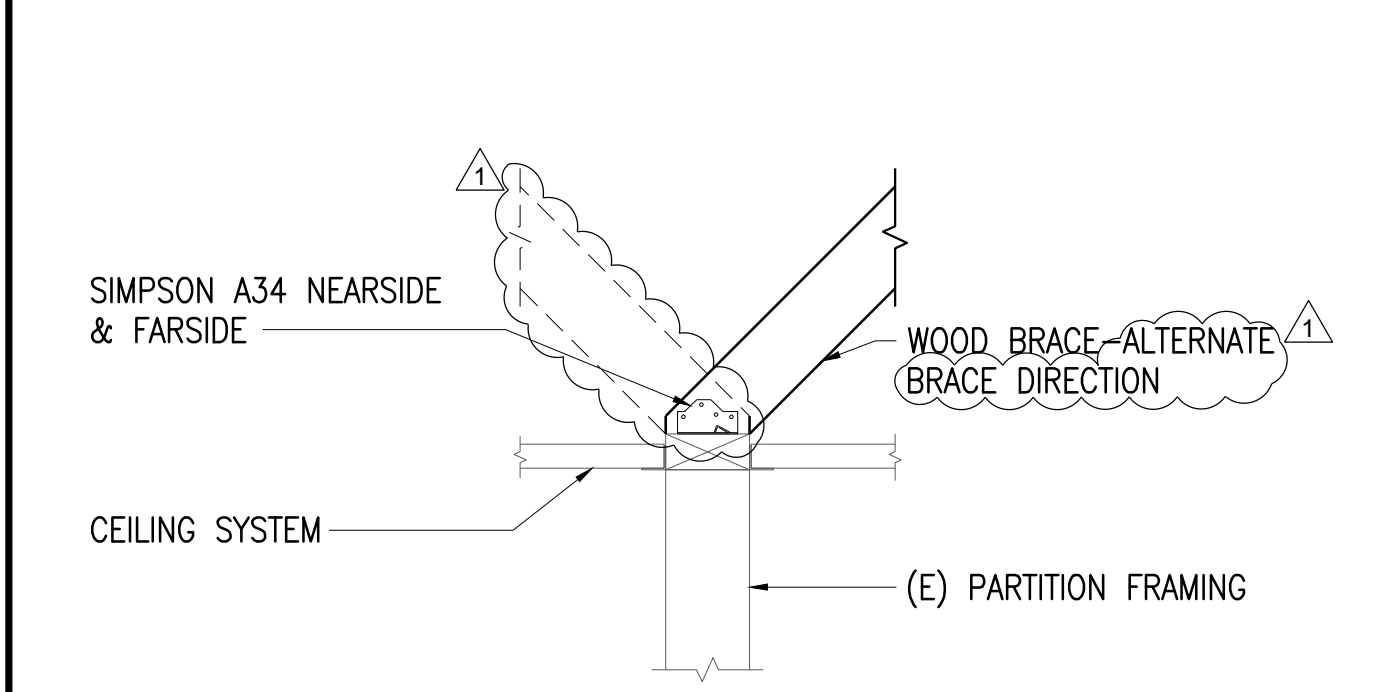
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**REFLECTED CEILING
& ROOF FRAMING
PLANS**

SHEET NUMBER
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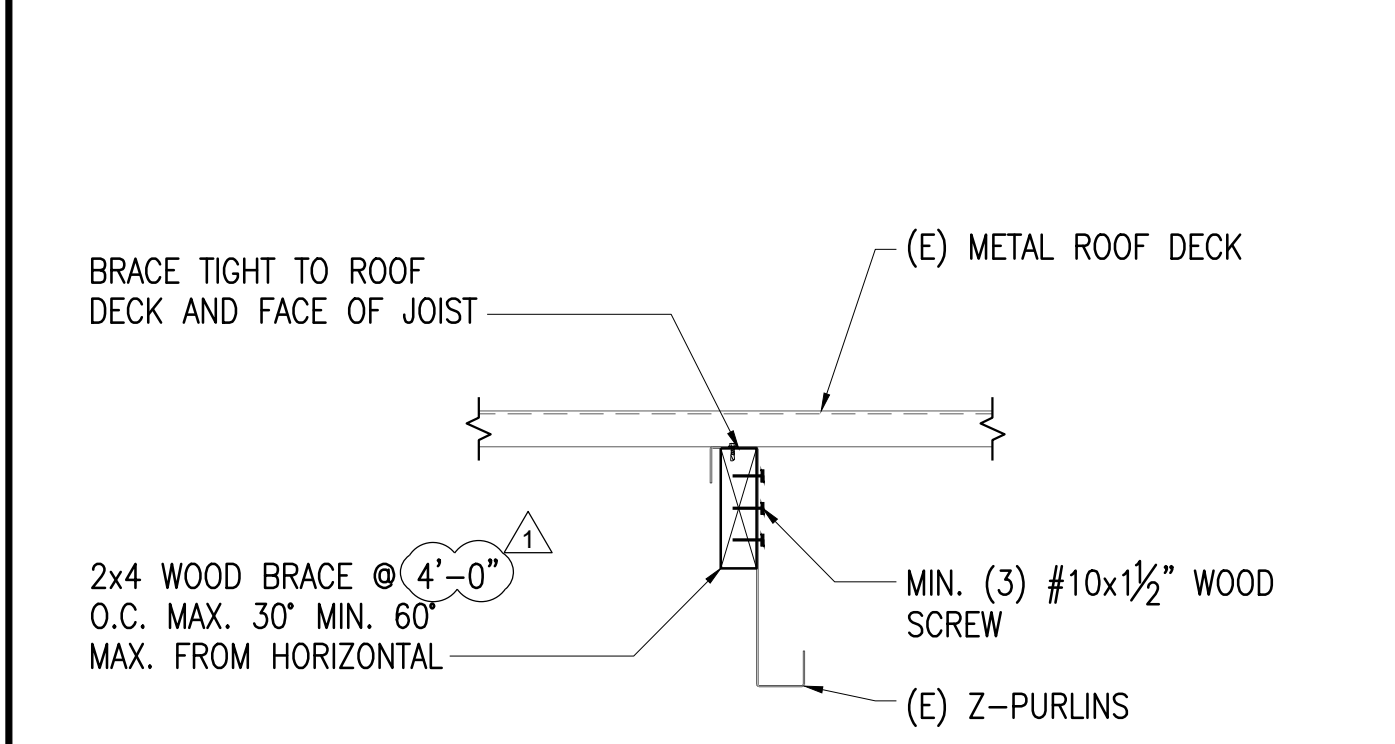
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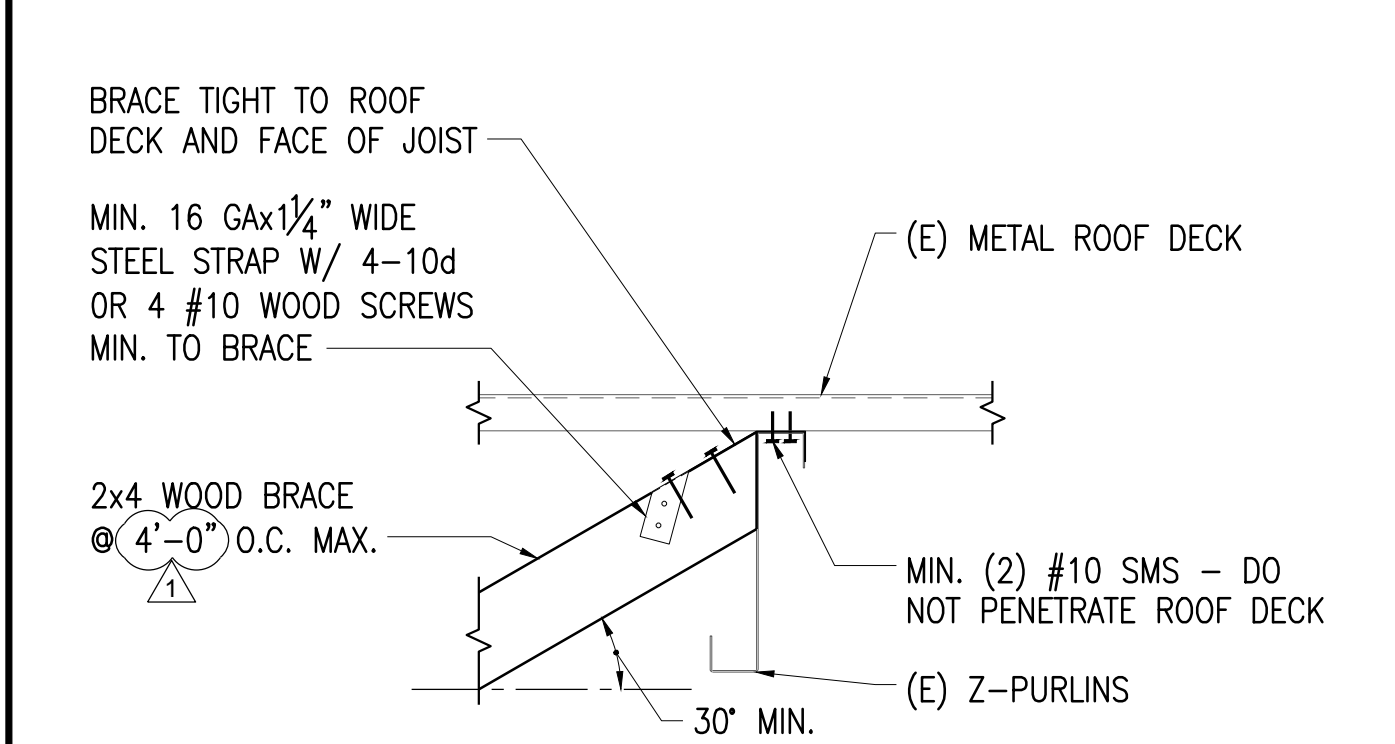
BRACE CONNECTION @ EXTENDED PARTITION 1 1/2"=1'-0" 18



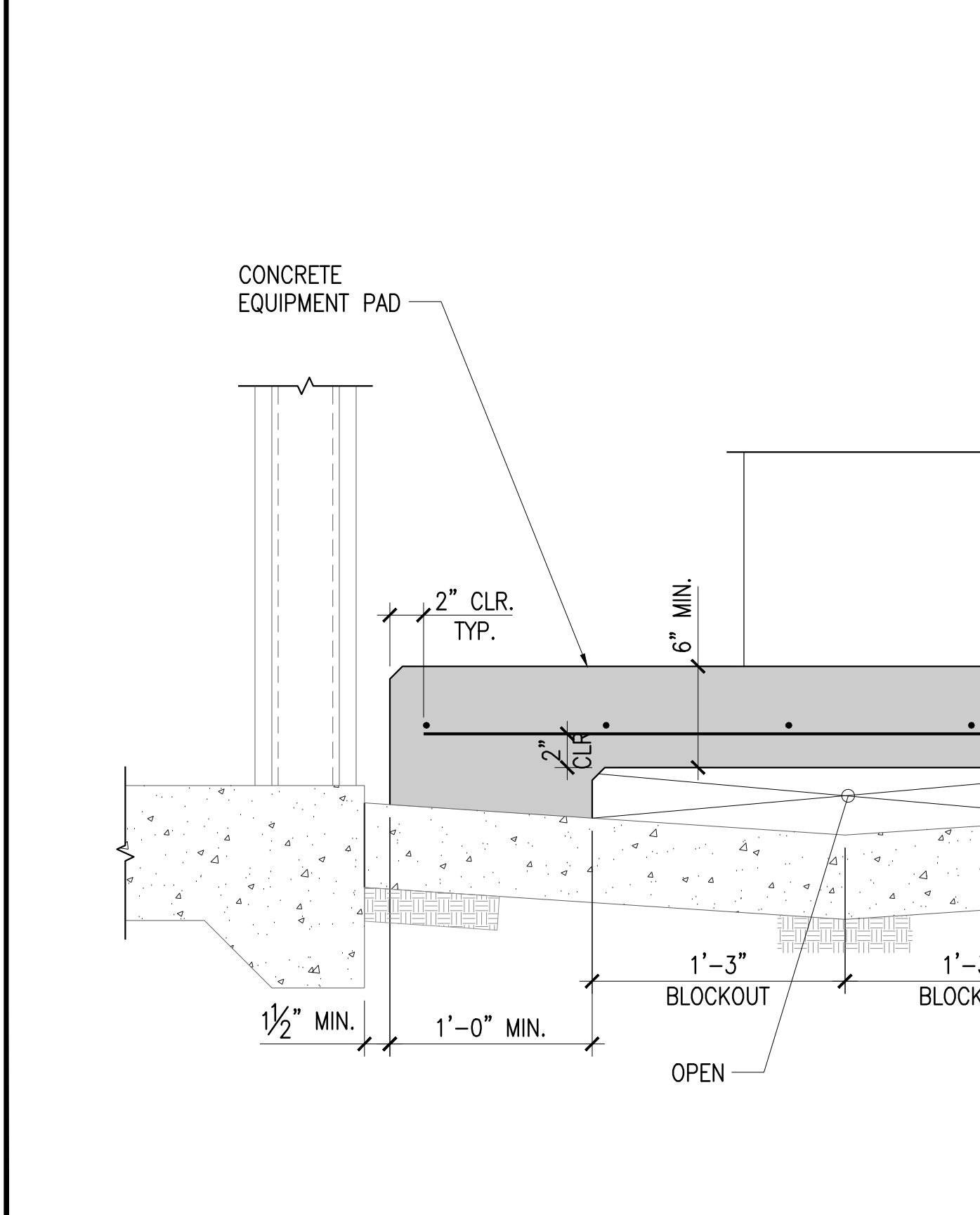
BRACE CONNECTION @ LOW PARTITION 1 1/2"=1'-0" 17



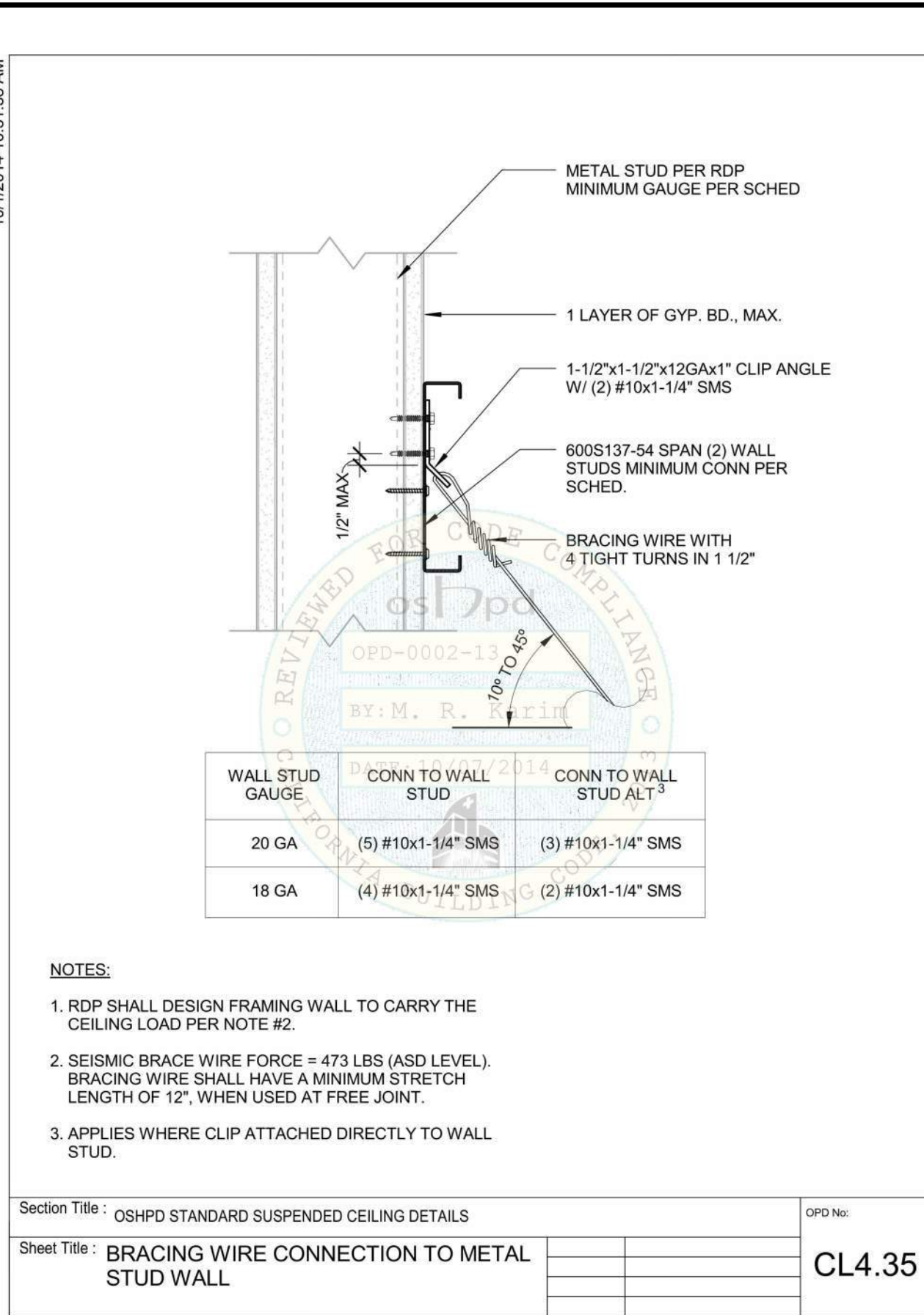
BRACING PARALLEL TO JOIST 1 1/2"=1'-0" 16



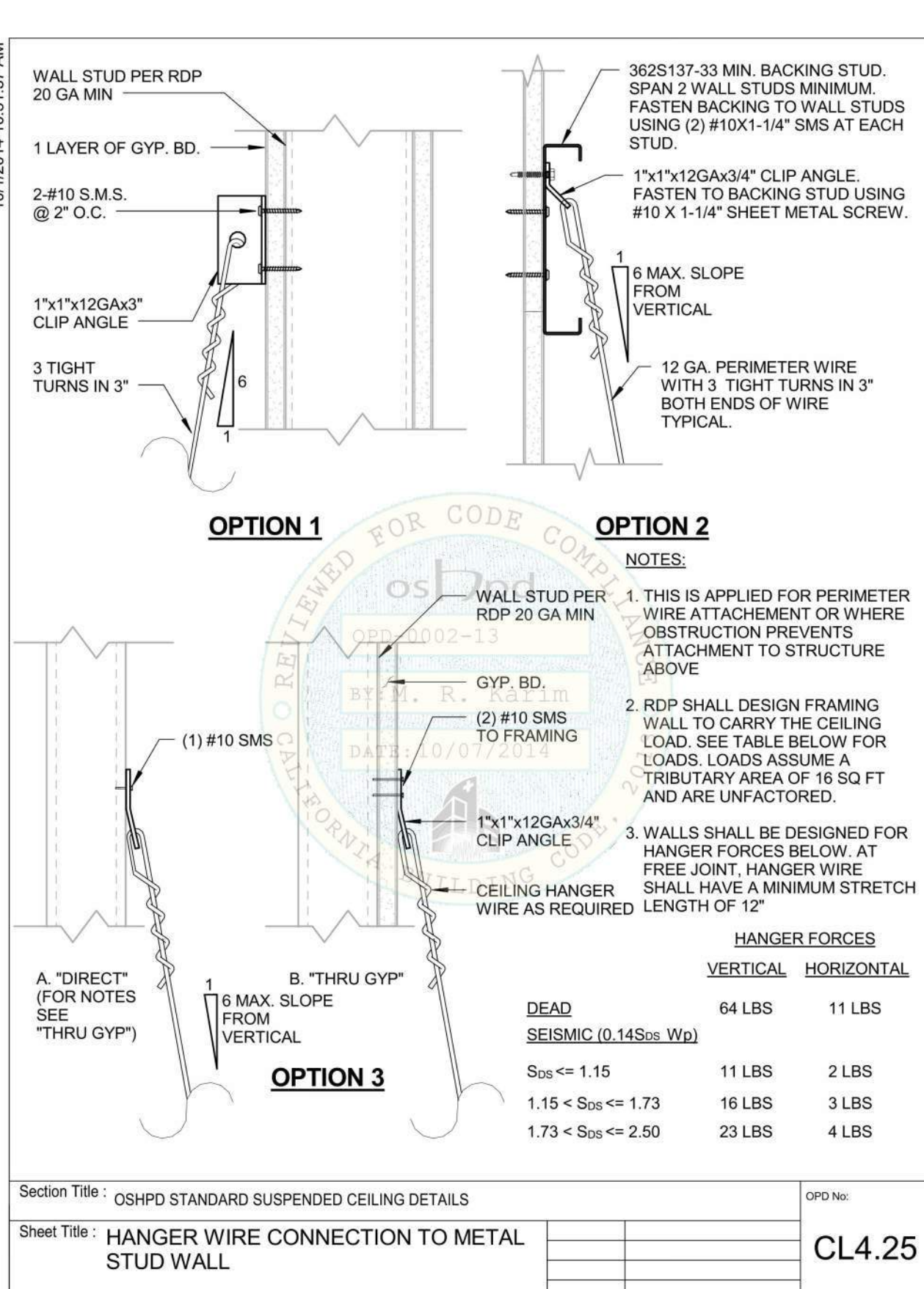
BRACING PERPENDICULAR TO JOIST 1 1/2"=1'-0" 15



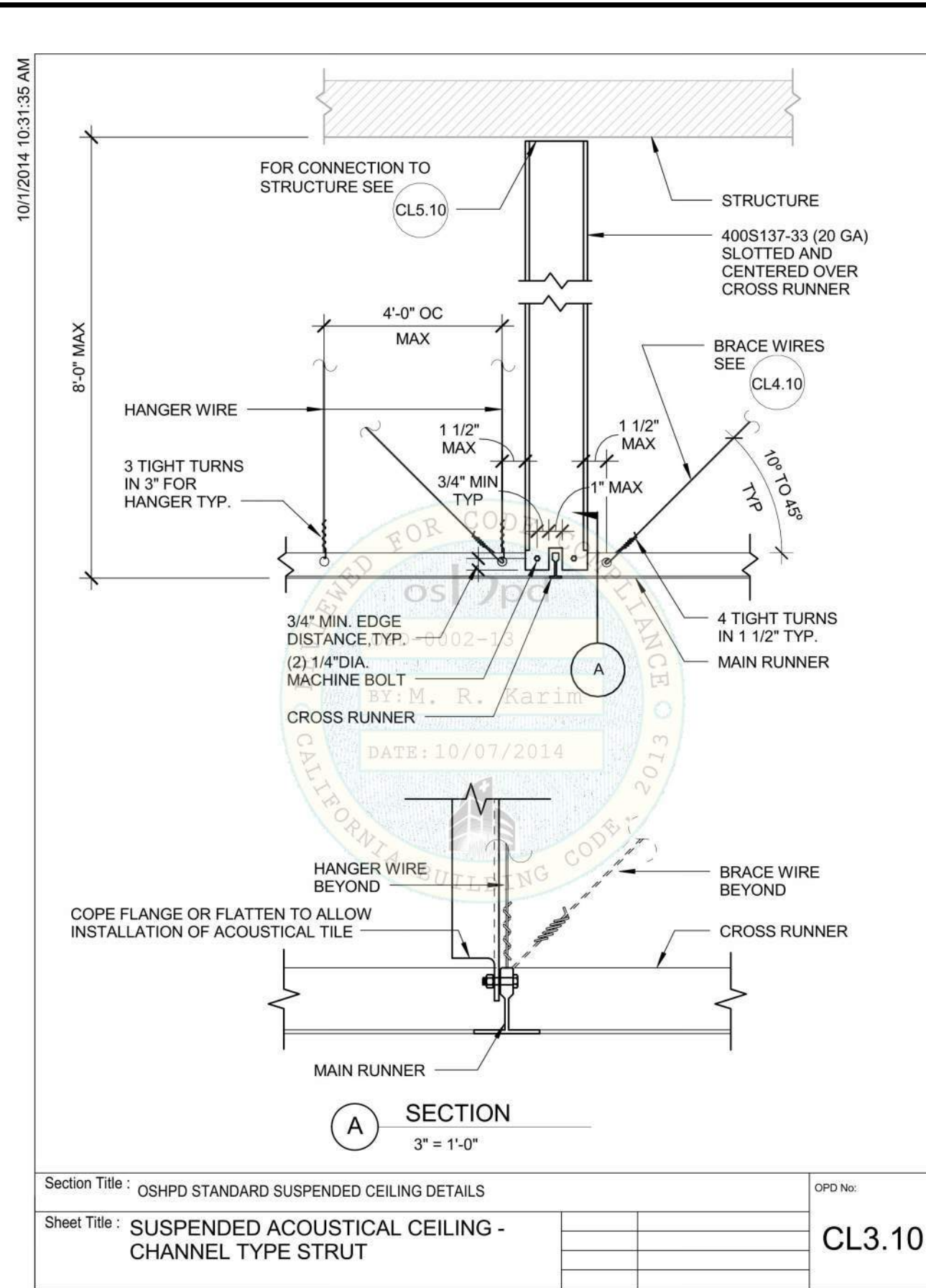
SECTION AT MECHANICAL UNIT 1 1/2"=1'-0" 14



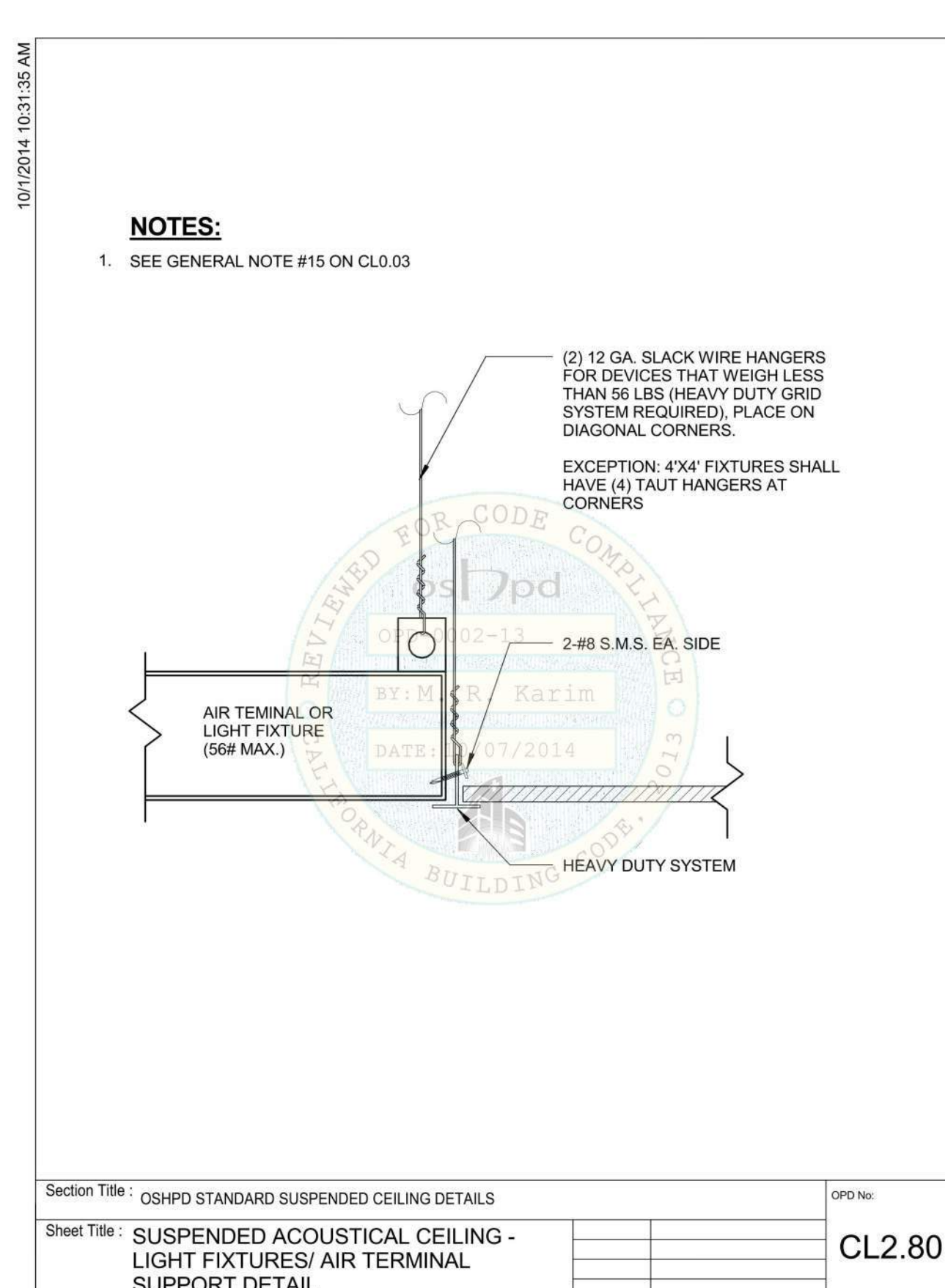
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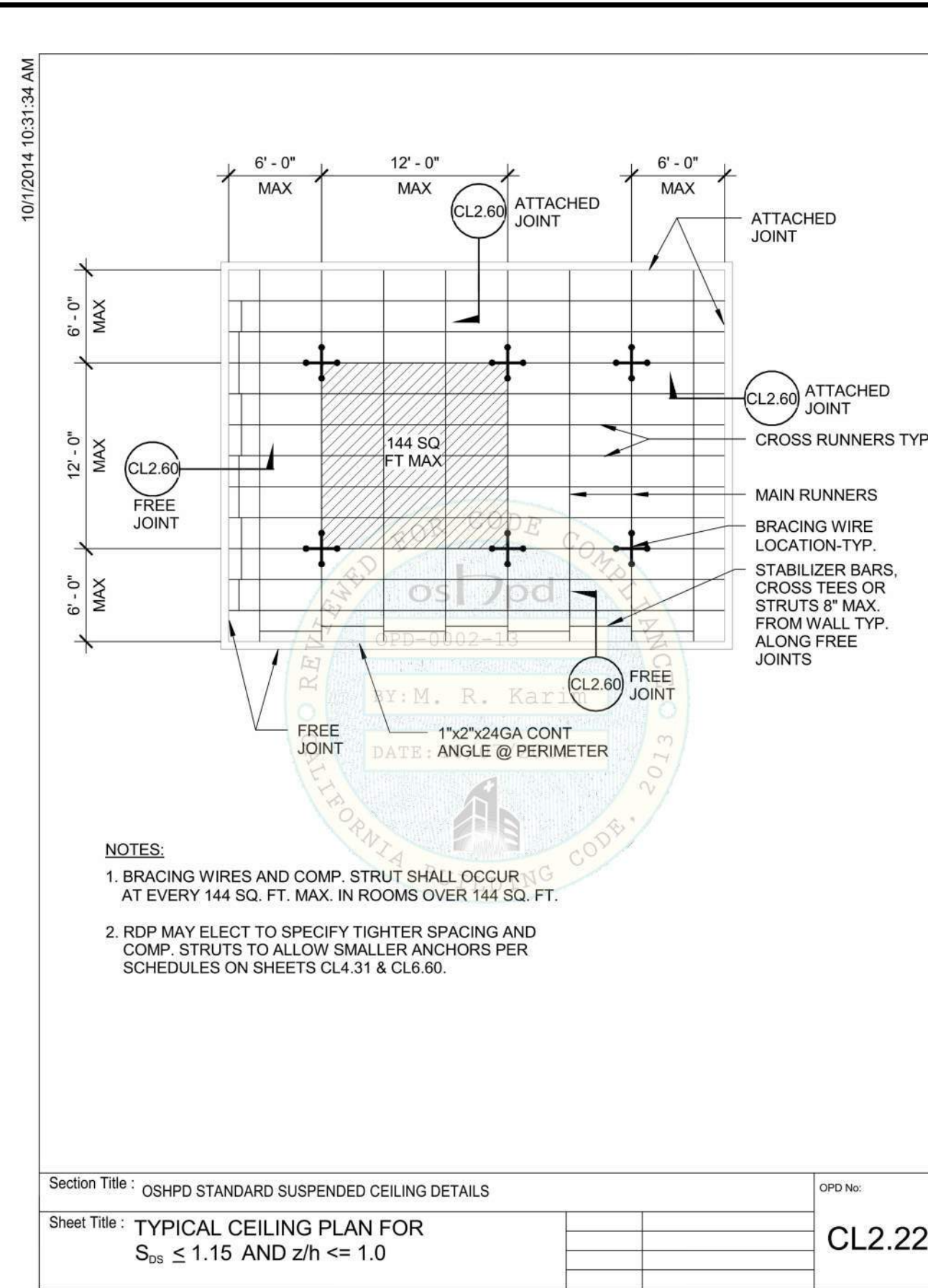
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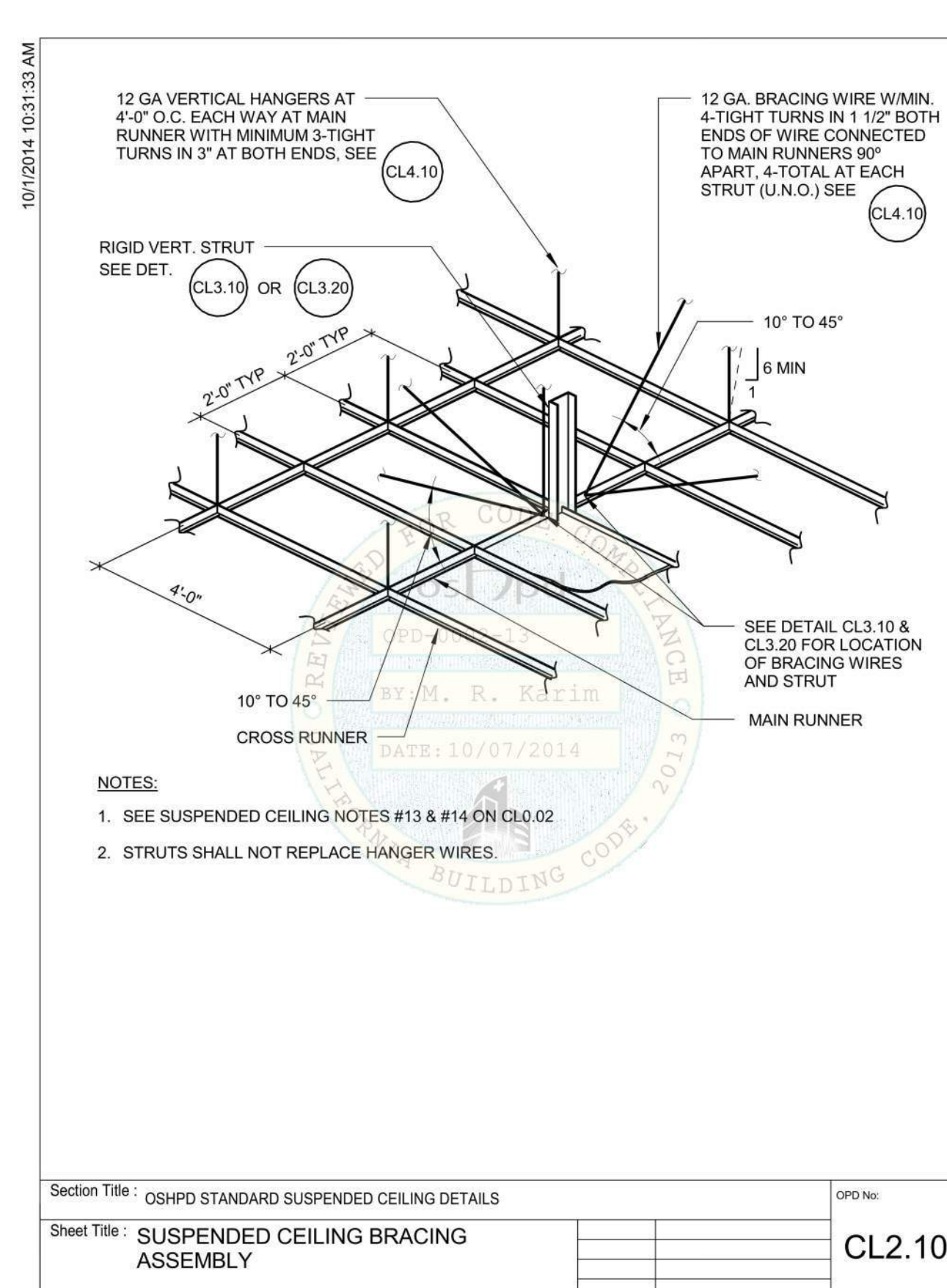
CL3.10



CL2.80



CL2.22



CL2.10

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS (CONTINUED)

TABLE 3 - NON-PRYING CONDITION

SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH TWO LAYERS OF 5/8\"/>

CL1.32

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

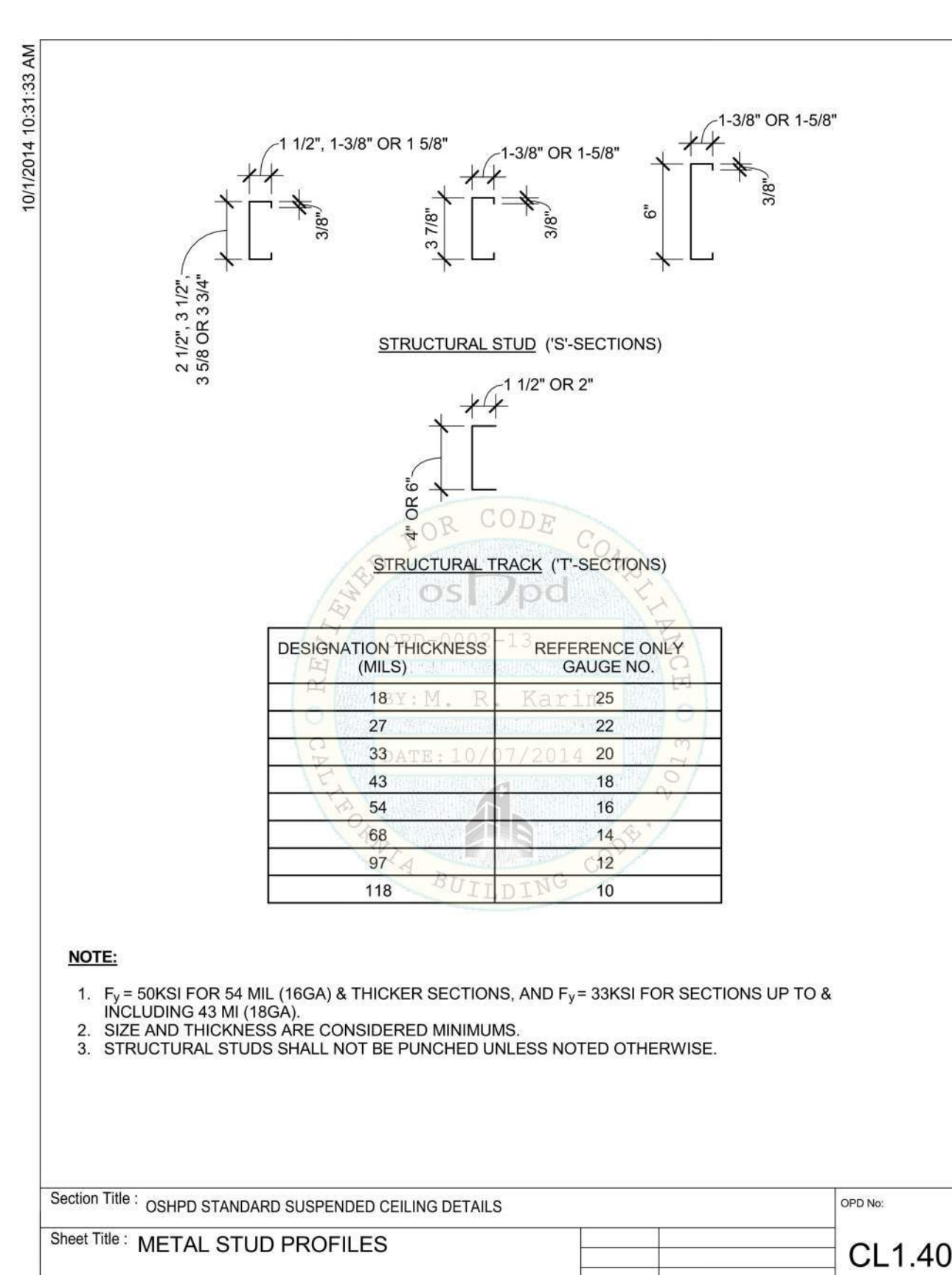
TABLE 1

SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

FASTENER SIZE

Fy (KSI)	ML (STEEL GA)	FASTENER SIZE									
		NO. 14		NO. 12		NO. 10		NO. 8		NO. 6	
		SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)
50	97 (12)	166	275	130	205	-	-	-	-	-	-
	68 (14)	166	275	130	205	100	159	-	-	-	-
	54 (16)	166	281	130	205	100	159	80	118	-	-
	43 (18)	166	144	130	124	100	109	80	94	50	79
33	33 (20)	-	-	-	-	70	84	50	72	40	61

CL1.31

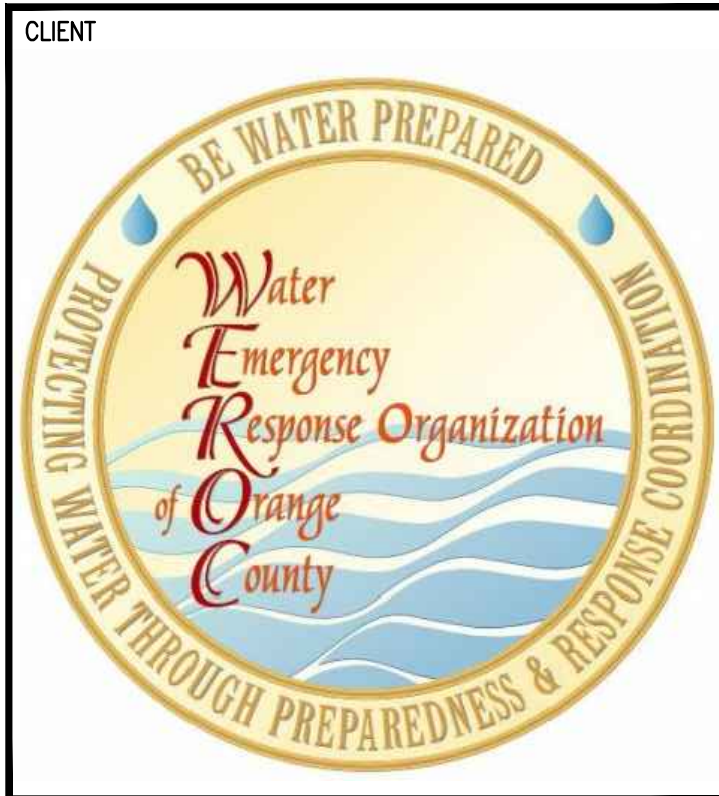


CL1.40

SHEET METAL SCREW (SMS) GENERAL NOTES

- THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07S2-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
- THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07S2-10, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118- ACCEPTANCE CRITERIA FOR SELF-TAPPING SCREW FASTENERS.
- TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
- TABLES 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE (1) OR TWO (2) LAYERS OF 5/8\"/>
- IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAIL IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
- PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN THREE (3) EXPOSED THREADS.
- STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
- THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER. WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE MINIMAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-07S2-10.
- GALVANIZED METAL STUDS, TRACK AND SHEET STEEL SHALL CONFORM TO ASTM A653-08a MATERIAL (OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN THE AISI S100-07S2-10, SECTION A2.1) WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.
- WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESS ARE NOT RECOMMENDED.
- IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1\"/>
- THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1\"/>
- RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTITUTION FOR THEM TO OSHPD FOR REVIEW.
- INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $\sqrt{f_v^2 + f_t^2} \leq 1.0$.
- REFER TO NOTE 6A ON CL0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

CL1.30



PROJECT NAME

WATER EMERGENCY
RESPONSE ORGANIZATION
OF ORANGE COUNTY
SOUTH EMERGENCY
OPERATIONS CENTER

SUPPORT AND BRACING
OF NON-STRUCTURAL
ELEMENTS

26081 VIA PERA
MISSION VIEJO, CA 92691

ENGINEER/ARCHITECT

IDS

IDS GROUP

1 PETERS CANYON ROAD, SUITE 130
IRVINE, CA 92606
TEL: 949-387-8500, FAX: 949-387-0800

STAMP

STAMP

REGISTERED PROFESSIONAL ENGINEER
No. 3580
STATE OF CALIFORNIA

DATE SIGNED: 02-27-2018

ISSUE

REV.	DESCRIPTION	DATE
1	PLAN CHECK 1ST REVIEW	4/11/18

KEY PLAN

PROJECT NO. 175020.01

PRINT DATE

DRAWN BY

CHECKED BY D.P.


SHEET TITLE

DETAILS

SHEET NUMBER

3.0


SHEET NO. OF XXX



CEILING PROJECTOR MOUNT

N.T.S.

20



WALL MOUNTED SIGN

WALL MOUNTED TV


TYPICAL DUCT REGISTER

SIGN HANGING FROM CEILING

SOUTHWEST CORNER OF ROOM

N.T.S.


16



CEILING AT RESTROOMS

N.T.S.

12




EXISTING LEDGER AT MASONRY VAULT

VAULT EDGE CONDITION

N.T.S.

8



BUILDING ENTRY


(E) ELECTRICAL VAULT

REMOVE & REPLACE CONCRETE WALK PER PLAN

DRIVE AISLE

N.T.S.

4



TYPICAL MECHANICAL DUCTS


TYPICAL GAGE METAL "Z" PURLINS

INSULATED CEILING

TYP. SPACE ABOVE CEILING

N.T.S.

19




SEE PHOTO 20 FOR VIEW ABOVE CEILING

CEILING MOUNTED PROJECTOR

N.T.S.

15



TYPICAL MECHANICAL REGISTER

CEILING AT FRONT WALL

N.T.S.

11





PHOTO 8

OFFICE CEILING

N.T.S.

7



BUILDING ENTRY


(E) ELECTRICAL VAULT

REMOVE & REPLACE CONCRETE WALK PER PLAN

BUILDING OVERVIEW

N.T.S.

3




TYPICAL ROOF PURLINS

INSULATED CEILING

TYP. SPACE ABOVE CEILING

N.T.S.

18




FULL HEIGHT WHITE BOARDS

EOC CEILING WEST

N.T.S.


14



EAST END OF LOBBY OFFICE

N.T.S.


10



OFFICE CEILING

N.T.S.

6




REPAIR PAVING & SMOOTH SURFACE ON PATH TRAVEL

PARKING AREA OVERVIEW

N.T.S.

2




WALL MOUNTED PROJECTOR SCREEN

WALL MOUNTED SPEAKER

WALL MOUNTED PROJECTOR SCREEN

N.T.S.

17




FULL HEIGHT WHITE BOARDS

POWER POLE/WIRE MOLD

EOC CEILING EAST

N.T.S.


13



WEST END OF LOBBY OFFICE

N.T.S.

9




BUILDING ENTRY

REMOVE & REPLACE CONCRETE WALK PER PLAN

BUILDING ENTRY

N.T.S.

5

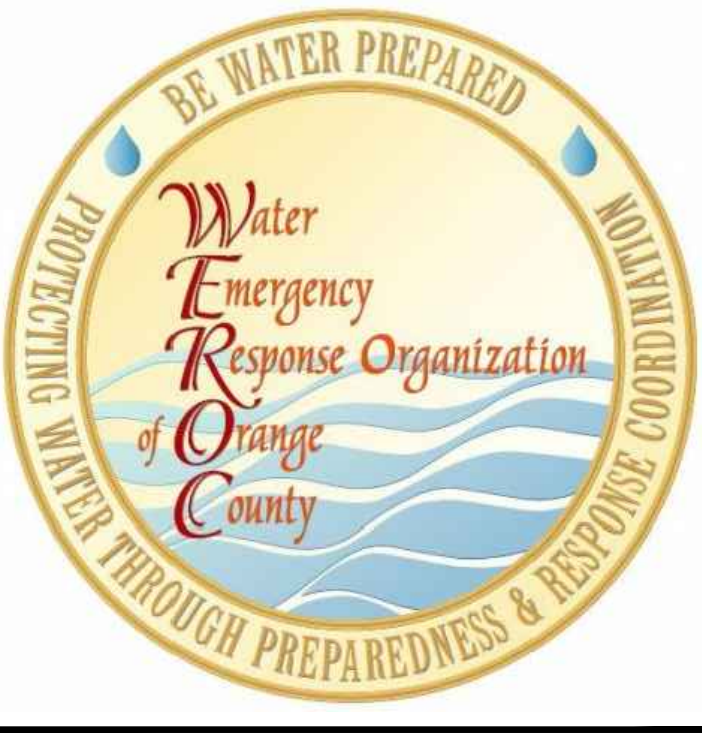


ADJUST PAVING IN PARKING AREA AS REQUIRED TO ACHIEVE 2:1 MAX. SLOPE IN ANY DIRECTION

PARKING AREA OVERVIEW

N.T.S.

1



CLIENT


PROJECT NAME

WATER EMERGENCY RESPONSE ORGANIZATION OF ORANGE COUNTY SOUTH EMERGENCY OPERATIONS CENTER

SUPPORT AND BRACING OF NON-STRUCTURAL ELEMENTS

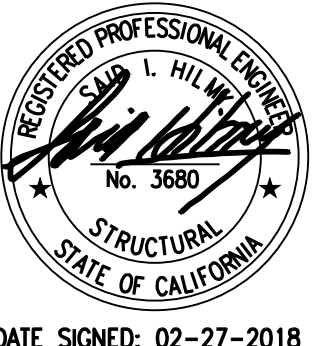
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1	PLAN CHECK 1ST REVIEW	4/11/18

KEY PLAN

PROJECT NO.	17S020.01
PRINT DATE	
DRAWN BY	-
CHECKED BY	D.P

SHEET TITLE

PHOTOS

SHEET NUMBER

4.0

SHEET NO. OF XXX